

Ficha de datos de seguridad Fresca Foglia DOG Balsamic



Ficha de datos de seguridad del 16/11/2021, Revisión 4

SECCIÓN 1. Identificación de la sustancia o la mezcla y de la sociedad o la empresa

1.1. Identificador de producto

Identificación del preparado:

Nombre comercial: Fresca Foglia DOG Balsamic

Código comercial: 1853

1.2. Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

Uso recomendado:

Ambientador para coches

Usos no recomendados:

Respetar estrictamente los usos recomendados.

1.3. Datos del proveedor de la ficha de datos de seguridad

Proveedor:

Arexons S.p.A.

via Antica di Cassano, 23, 20063

Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Persona competente responsable de la ficha de datos de seguridad:

arexons@arexons.it

1.4. Teléfono de emergencia

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Teléfono de emergencias: + 34 91 562 04 20 (Solo emergencias toxicológicas. Información en español (24h/365 días))

SECCIÓN 2. Identificación de los peligros

2.1. Clasificación de la sustancia o de la mezcla

Criterios Reglamentación CE 1272/2008 (Clasificación, Etiquetado y Empacado):

⚠ Atención, Skin Irrit. 2, Provoca irritación cutánea.

⚠ Atención, Eye Irrit. 2, Provoca irritación ocular grave.

⚠ Atención, Skin Sens. 1B, Puede provocar una reacción alérgica en la piel.

⚠ Aquatic Chronic 2, Tóxico para los organismos acuáticos, con efectos nocivos duraderos.

Efectos físico-químicos nocivos para la salud humana y para el medio ambiente:

Ningún otro riesgo

2.2. Elementos de la etiqueta

Pictogramas de peligro:



Atención

Indicaciones de peligro:

H315 Provoca irritación cutánea.

H319 Provoca irritación ocular grave.

H317 Puede provocar una reacción alérgica en la piel.

H411 Tóxico para los organismos acuáticos, con efectos nocivos duraderos.

Consejos de prudencia:

P101 Si se necesita consejo médico, tener a mano el envase o la etiqueta.

P102 Mantener fuera del alcance de los niños.

P103 Leer atentamente y seguir todas las instrucciones.

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P273 Evitar su liberación al medio ambiente.
P302+P352 EN CASO DE CONTACTO CON LA PIEL: Lavar con agua y jabón abundantes.
P305+P351+P338 EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.
P333+P313 En caso de irritación o erupción cutánea: Consultar a un médico.
P337+P313 Si persiste la irritación ocular: Consultar a un médico.
P501 Eliminar el contenido/el recipiente en conformidad con la reglamentación.

Disposiciones especiales:

EUH208 Contiene Mentha Spicata herb oil (Chine). Puede provocar una reacción alérgica.
EUH208 Contiene Euclyptus Globulus leaf oil (Spain). Puede provocar una reacción alérgica.
EUH208 Contiene Citral. Puede provocar una reacción alérgica.
EUH208 Contiene 3-(para-cumenyl)-2-methylpropanaldehyde. Puede provocar una reacción alérgica.
EUH208 Contiene BENZYL SALICYLATE. Puede provocar una reacción alérgica.
EUH208 Contiene Lemon terpenes. Puede provocar una reacción alérgica.
EUH208 Contiene Coumarin. Puede provocar una reacción alérgica.
EUH208 Contiene Carum Carvi fruit oil (Hungary). Puede provocar una reacción alérgica.
EUH208 Contiene Methoxyhydratropaldehyde. Puede provocar una reacción alérgica.
EUH208 Contiene Salvia Lavandulifolia herb oil (Spain). Puede provocar una reacción alérgica.
EUH208 Contiene Styrax Benzoin Gum extract (Sumatra). Puede provocar una reacción alérgica.
EUH208 Contiene alpha-Pinene. Puede provocar una reacción alérgica.
EUH208 Contiene Boswellia Carteri gum oil. Puede provocar una reacción alérgica.
EUH208 Contiene Aguarrás. Puede provocar una reacción alérgica.
EUH208 Contiene HELIOTROPINE. Puede provocar una reacción alérgica.
EUH208 Contiene Tetramethylacetyloctahydronaphthalenes. Puede provocar una reacción alérgica.
EUH208 Contiene 2-METHOXY-4-(PROP-1-ENYL) PHENOL. Puede provocar una reacción alérgica.

Contiene

(R)-p-menta-1,8-dieno; d-limoneno

Disposiciones especiales de acuerdo con el anexo XVII del Reglamento REACH y sus posteriores modificaciones:

Ninguna

2.3. Otros peligros

Ninguna sustancia PBT, mPmB o perturbador endocrino presente en concentración $\geq 0.1\%$

Otros riesgos:

Ningún otro riesgo

SECCIÓN 3. Composición/información sobre los componentes

3.1. Sustancias

N.A.

3.2. Mezclas

Componentes peligrosos según el Reglamento CLP y su correspondiente clasificación:

$\geq 5\%$ - $< 7\%$ Mentha Spicata herb oil (Chine)

REACH No.: 17-2119419886-26, CAS: 8008-79-5, EC: 283-656-2

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 4.1/C2 Aquatic Chronic 2 H411

$\geq 3\%$ - $< 5\%$ L-Menthol nat

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REACH No.: 01-2119458866-21, CAS: 2216-51-5, EC: 218-690-9

⚠ 3.2/2 Skin Irrit. 2 H315

>= 3% - < 5% Mentha Pulegium herb oil

REACH No.: 17-2119422069-43, CAS: 8013-99-8, EC: 290-061-1

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.1/4/Dermal Acute Tox. 4 H312

⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 3% - < 5% Ethyl linalool

REACH No.: 01-2119969272-32, CAS: 10339-55-6, EC: 233-732-6

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/2 Eye Irrit. 2 H319

>= 3% - < 5% Methoxymethylbutanol

REACH No.: 01-2119976333-33, CAS: 56539-66-3, EC: 260-252-4

⚠ 3.3/2 Eye Irrit. 2 H319

>= 3% - < 5% β -Metil-3-(1-metiletil)-bencenopropanal

REACH No.: 01-2119858360-39, Número Index: 605-028-00-2, CAS: 125109-85-5, EC: 412-050-4

⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 2% - < 3% Euclyptus Globulus leaf oil (Spain)

REACH No.: 01-2119978250-37, CAS: 8000-48-4, EC: 283-406-2

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 2% - < 3% 1,3,4,6,7,8-Hexahidro-4,6,6,7,8,8-hexametilindeno[5,6-c]pirano; galaxólido; (HHCB)

REACH No.: 01-2119488227-29, Número Index: 603-212-00-7, CAS: 1222-05-5, EC: 214-946-9

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 2% - < 3% tetrahidro-2-isobutil-4-metilpiran-4-ol

REACH No.: 01-2119455547-30, Número Index: 603-101-00-3, CAS: 63500-71-0, EC: 405-040-6

⚠ 3.3/2 Eye Irrit. 2 H319

>= 1% - < 2% (R)-p-menta-1,8-dieno; d-limoneno

REACH No.: 01-2119529223-47, Número Index: 601-029-00-7, CAS: 5989-27-5, EC: 227-813-5

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 1% - < 2% Citral

REACH No.: 01-2119462829-23, Número Index: 605-019-00-3, CAS: 5392-40-5, EC: 226-394-6

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 3.3/2 Eye Irrit. 2 H319

>= 1% - < 2% 3-(para-cumenil)-2-methylpropanaldehyde

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CAS: 6658-48-6, EC: 229-695-0

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 3.7/2 Repr. 2 H361

>= 1% - < 2% BENZYL SALICYLATE

REACH No.: 01-2119969442-31, CAS: 118-58-1, EC: 204-262-9

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.4.2/1 Skin Sens. 1 H317

4.1/C3 Aquatic Chronic 3 H412

>= 1% - < 2% Alcohol bencílico

REACH No.: 01-2119492630-38, Número Index: 603-057-00-5, CAS: 100-51-6, EC: 202-859-9

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.1/4/Oral Acute Tox. 4 H302

>= 1% - < 2% Benzoato de bencilo

REACH No.: 05-2114141961-51, Número Index: 607-085-00-9, CAS: 120-51-4, EC: 204-402-9

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 0.25% - < 0.5% Lemon terpenes

REACH No.: 17-2119411548-40, CAS: 68917-33-9, EC: 284-515-8

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% Coumarin

REACH No.: 01-2119949300-45, CAS: 91-64-5, EC: 202-086-7

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.4.2/1 Skin Sens. 1 H317

4.1/C3 Aquatic Chronic 3 H412

>= 0.1% - < 0.25% Salvia Lavandulifolia herb oil (Spain)

CAS: 8016-65-7, EC: 290-272-9

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.8/2 STOT SE 2 H371

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% Carum Carvi fruit oil (Hungary)

CAS: 8000-42-8, EC: 288-921-6

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% Methoxyhydratropaldehyde

CAS: 5462-06-6, EC: 226-749-5

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- ⚠ 3.4.2/1 Skin Sens. 1 H317
- ⚠ 3.3/2 Eye Irrit. 2 H319
- 4.1/C3 Aquatic Chronic 3 H412

>= 0.1% - < 0.25% Aguarrás

REACH No.: 01-2119502456-45, Número Index: 650-002-00-6, CAS: 8006-64-2, EC: 232-350-7

- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 3.1/4/Oral Acute Tox. 4 H302
- ⚠ 3.10/1 Asp. Tox. 1 H304
- ⚠ 3.1/4/Dermal Acute Tox. 4 H312
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317
- ⚠ 3.3/2 Eye Irrit. 2 H319
- ⚠ 3.1/4/Inhal Acute Tox. 4 H332
- ⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 0.1% - < 0.25% alpha-Pinene

CAS: 7785-26-4, EC: 232-077-3

- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 3.10/1 Asp. Tox. 1 H304
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.4.2/1 Skin Sens. 1 H317
- ⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% Styrax Benzoin Gum extract (Sumatra)

CAS: 9000-05-9, EC: 284-557-7

- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.4.2/1 Skin Sens. 1 H317
- ⚠ 3.3/2 Eye Irrit. 2 H319
- 4.1/C3 Aquatic Chronic 3 H412

>= 0.1% - < 0.25% Boswellia Carteri gum oil

CAS: 8016-36-2, EC: 289-620-2

- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 3.10/1 Asp. Tox. 1 H304
- ⚠ 3.4.2/1 Skin Sens. 1 H317
- ⚠ 4.1/A1 Aquatic Acute 1 H400
- ⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% Tetramethylacetyloctahydronaphthalenes

REACH No.: 01-2119489989-04, CAS: 54464-57-2, EC: 915-730-3

- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.4.2/1 Skin Sens. 1 H317
- ⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% Acetyl hexamethyl tetralin

REACH No.: 01-2119539433-40, CAS: 1506-02-1, EC: 244-240-6

- ⚠ 3.1/4/Oral Acute Tox. 4 H302
- ⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% HELIOTROPINE

REACH No.: 05-2117665335-39, CAS: 120-57-0, EC: 204-409-7

- ⚠ 3.4.2/1 Skin Sens. 1 H317

>= 0.05% - < 0.1% etanol

REACH No.: 01-2119457610-43, Número Index: 603-002-00-5, CAS: 64-17-5, EC: 200-578-6

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- ⚠ 2.6/2 Flam. Liq. 2 H225
- ⚠ 3.3/2 Eye Irrit. 2 H319

Límites de concentración específicos:
C >= 50%: Eye Irrit. 2 H319

- >= 0.02% - < 0.05% 2-METHOXY-4-(PROP-1-ENYL) PHENOL
CAS: 97-54-1, EC: 202-590-7
- ⚠ 3.1/4/Dermal Acute Tox. 4 H312
 - ⚠ 3.1/4/Oral Acute Tox. 4 H302
 - ⚠ 3.2/2 Skin Irrit. 2 H315
 - ⚠ 3.4.2/1A Skin Sens. 1A H317

SECCIÓN 4. Primeros auxilios

4.1. Descripción de los primeros auxilios

En caso de contacto con la piel:

Quítese inmediatamente la ropa contaminada.

Quitarse de inmediato la indumentaria contaminada y eliminarla de manera segura.

En caso de contacto con la piel, lavar de inmediato con abundante agua y jabón.

En caso de contacto con los ojos:

En caso de contacto con los ojos, enjuagarlos con agua durante un tiempo adecuado y manteniendo los párpados abiertos, luego consultar de inmediato con un oftalmólogo.

Proteger el ojo ileso.

En caso de ingestión:

No provocar el vómito en ningún caso. CONSULTAR INMEDIATAMENTE AL MÉDICO.

En caso de inhalación:

Llevar al accidentado al aire libre y mantenerlo en reposo y abrigado.

4.2. Principales síntomas y efectos, agudos y retardados

Ninguno

4.3. Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente

En caso de accidente o malestar, consultar de inmediato con un médico (si es posible mostrarle las instrucciones de uso o la ficha de seguridad)

Tratamiento:

Ninguno

SECCIÓN 5. Medidas de lucha contra incendios

5.1. Medios de extinción

Medios de extinción apropiados:

Con anhídrido carbónico.

Con polvo.

Medios de extinción no recomendados:

No usar chorros de agua directos

5.2. Peligros específicos derivados de la sustancia o la mezcla

No inhalar los gases producidos por la explosión y por la combustión.

La combustión produce humo pesado.

5.3. Recomendaciones para el personal de lucha contra incendios

Utilizar equipos respiratorios apropiados.

Recoger por separado el agua contaminada utilizada para extinguir el incendio. No descargarla en la red de alcantarillado.

Si es posible, desde el punto de vista de la seguridad, retirar de inmediato del área los

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contenedores no dañados.

SECCIÓN 6. Medidas en caso de vertido accidental

- 6.1. Precauciones personales, equipo de protección y procedimientos de emergencia
 - Usar los dispositivos de protección individual.
 - Llevar las personas a un lugar seguro.
 - Consultar las medidas de protección expuestas en los puntos 7 y 8.
- 6.2. Precauciones relativas al medio ambiente
 - Evitar que el producto penetre en el suelo/subsuelo. Evitar que penetre en aguas superficiales o en el alcantarillado.
 - Conservar el agua de lavado contaminada y eliminarla.
 - En caso de fuga de gas o penetración en cursos de agua, suelo o sistema de alcantarillado, informar a las autoridades responsables.
 - Material apropiado para la recogida: material absorbente, orgánico, arena
- 6.3. Métodos y material de contención y de limpieza
 - Lavar con abundante agua.
- 6.4. Referencia a otras secciones
 - Véanse también los apartados 8 y 13.

SECCIÓN 7. Manipulación y almacenamiento

- 7.1. Precauciones para una manipulación segura
 - Evitar el contacto con la piel y los ojos, la inhalación de vapores y vahos.
 - No utilizar contenedores vacíos que no hayan sido previamente limpiados.
 - Antes de realizar las operaciones de transferencia, asegurarse de que en los contenedores no haya materiales residuos incompatibles.
 - Remitirse también al apartado 8 para los dispositivos de protección recomendados.

La indumentaria contaminada debe ser sustituida antes de acceder a las áreas de almuerzo.
No comer ni beber durante el trabajo.
- 7.2. Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades
 - Mantener alejado de comidas, bebidas y piensos.
 - Ninguna en particular.
 - Indicaciones para los locales:
Locales adecuadamente aireados.
- 7.3. Usos específicos finales
 - Ningún uso particular

SECCIÓN 8. Controles de exposición/protección individual

- 8.1. Parámetros de control
 - Citral - CAS: 5392-40-5
 - ACGIH - TWA(8h): 5 ppm - Notas: (IFV), Skin, DSEN, A4 - Body weight eff, URT irr, eye dam
 - Aguarrás - CAS: 8006-64-2
 - ACGIH - TWA(8h): 20 ppm - Notas: DSEN, A4 - Lung irr
 - Etanol; alcohol etílico - CAS: 64-17-5
 - ACGIH - STEL: 1000 ppm - Notas: A3 - URT irr
- Valores límites de exposición DNEL
 - Mentha Spicata herb oil (Chine) - CAS: 8008-79-5
 - Trabajador industrial: 6.242 mg/m³ - Consumidor: 1.553 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos
 - Trabajador industrial: 5.183 mg/kg - Consumidor: 2.589 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos
 - Consumidor: 16.410 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

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L-Menthol nat - CAS: 2216-51-5

Trabajador industrial: 132 mg/m³ - Consumidor: 33 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 19 mg/kg - Consumidor: 9.4 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 9.4 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Ethyl linalool - CAS: 10339-55-6

Trabajador industrial: 3 mg/m³ - Consumidor: 2.7 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 2.7 mg/kg - Consumidor: 1.4 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.2 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Methoxymethylbutanol - CAS: 56539-66-3

Trabajador industrial: 5.9 mg/m³ - Consumidor: 1.7 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 2 mg/kg - Consumidor: 1.2 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.5 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Euclptus Globulus leaf oil (Spain) - CAS: 8000-48-4

Trabajador industrial: 3.52 mg/m³ - Consumidor: 0.87 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 1 mg/kg - Consumidor: 0.5 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.5 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

1,3,4,6,7,8-Hexahidro-4,6,6,7,8,8-hexametilindeno[5,6-c]pirano; galaxólido; (HHCB) - CAS: 1222-05-5

Trabajador industrial: 5.29 mg/m³ - Consumidor: 1.3 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 28.85 mg/kg - Consumidor: 14.43 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.75 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

tetrahidro-2-isobutil-4-metilpiran-4-ol - CAS: 63500-71-0

Trabajador industrial: 12.2 mg/m³ - Consumidor: 3.62 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 3.47 mg/kg - Consumidor: 2.08 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 1.04 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

(R)-p-menta-1,8-dieno; d-limoneno - CAS: 5989-27-5

Trabajador industrial: 33.3 mg/m³ - Consumidor: 8.33 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 222 µg/cm² - Consumidor: 111 µg/cm² - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 4.78 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Citral - CAS: 5392-40-5

Trabajador industrial: 9 mg/m³ - Consumidor: 2.7 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 1.7 mg/kg - Consumidor: 1 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.6 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos

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sistémicos

BENZYL SALICYLATE - CAS: 118-58-1

Trabajador industrial: 3.17 mg/m³ - Consumidor: 0.78 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 0.9 mg/kg - Consumidor: 0.45 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.45 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Alcohol bencílico - CAS: 100-51-6

Trabajador industrial: 90 mg/m³ - Consumidor: 8.11 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 9.5 mg/kg - Consumidor: 5.7 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 5 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Benzoato de bencilo - CAS: 120-51-4

Trabajador industrial: 5.1 mg/m³ - Consumidor: 1.25 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 2.6 mg/kg - Consumidor: 1.30 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.40 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Coumarin - CAS: 91-64-5

Trabajador industrial: 6.78 mg/m³ - Consumidor: 1.69 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 0.79 mg/kg - Consumidor: 0.39 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.39 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Salvia Lavandulifolia herb oil (Spain) - CAS: 8016-65-7

Trabajador industrial: 12.613 mg/m³ - Consumidor: 3.099 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 7.487 mg/kg - Consumidor: 3.753 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 152.23 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Carum Carvi fruit oil (Hungary) - CAS: 8000-42-8

Trabajador industrial: 16.315 mg/m³ - Consumidor: 4.074 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 28.372 mg/kg - Consumidor: 14.186 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 2.325 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Aguarrás - CAS: 8006-64-2

Trabajador industrial: 11.200 mg/m³ - Consumidor: 0.986 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 1.600 mg/kg - Consumidor: 0.601 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.570 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

alpha-Pinene - CAS: 7785-26-4

Trabajador industrial: 5.69 mg/m³ - Consumidor: 1 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 0.8 mg/kg - Consumidor: 0.3 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.3 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos

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sistémicos

Styrax Benzoin Gum extract (Sumatra) - CAS: 9000-05-9

Trabajador industrial: 1.144 mg/m³ - Consumidor: 0.391 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 9.887 mg/kg - Consumidor: 4.979 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 2.824 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Tetramethylacetyloctahydronaphthalenes - CAS: 54464-57-2

Trabajador industrial: 1.76 mg/m³ - Consumidor: 0.43 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 1.73 mg/kg - Consumidor: 0.86 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.25 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Acetyl hexamethyl tetralin - CAS: 1506-02-1

Trabajador industrial: 0.175 mg/m³ - Consumidor: 0.0435 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 0.61 mg/kg - Consumidor: 0.305 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.0125 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

HELIOTROPINE - CAS: 120-57-0

Trabajador industrial: 3.5 mg/m³ - Consumidor: 0.87 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos

Trabajador industrial: 0.5 mg/kg - Consumidor: 0.25 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos

Consumidor: 0.25 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos

Valores límites de exposición PNEC

L-Menthol nat - CAS: 2216-51-5

Objetivo: agua dulce - Valor: 15.6 03

Objetivo: Agua marina - Valor: 1.56 03

Objetivo: Microorganismos en aguas residuales - Valor: 2.37 mg/l

Objetivo: Sedimentos de agua dulce - Valor: 289 mg/kg

Objetivo: Sedimentos de agua marina - Valor: 2.89 mg/kg

Ethyl linalool - CAS: 10339-55-6

Objetivo: agua dulce - Valor: 0.023 03

Objetivo: Agua marina - Valor: 0.0023 03

Objetivo: Microorganismos en aguas residuales - Valor: 10 mg/l

Objetivo: Sedimentos de agua dulce - Valor: 0.223 mg/kg

Objetivo: Sedimentos de agua marina - Valor: 0.0223 mg/kg

Euclptus Globulus leaf oil (Spain) - CAS: 8000-48-4

Objetivo: agua dulce - Valor: 2.04 03

Objetivo: Agua marina - Valor: 0.204 03

Objetivo: Microorganismos en aguas residuales - Valor: 10 mg/l

Objetivo: Sedimentos de agua dulce - Valor: 0.665 mg/kg

Objetivo: Sedimentos de agua marina - Valor: 0.0665 mg/kg

1,3,4,6,7,8-Hexahidro-4,6,6,7,8,8-hexametilindeno[5,6-c]pirano; galaxólido; (HHCB) - CAS: 1222-05-5

Objetivo: agua dulce - Valor: 4.4 03

Objetivo: Agua marina - Valor: 0.44 03

Objetivo: Microorganismos en aguas residuales - Valor: 1 mg/l

Objetivo: Sedimentos de agua dulce - Valor: 2 mg/kg

Objetivo: Sedimentos de agua marina - Valor: 0.394 mg/kg

tetrahidro-2-isobutil-4-metilpiran-4-ol - CAS: 63500-71-0

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- Objetivo: agua dulce - Valor: 0.094 03
- Objetivo: Agua marina - Valor: 0.0094 03
- Objetivo: Microorganismos en aguas residuales - Valor: 10 mg/l
- Objetivo: Sedimentos de agua dulce - Valor: 0.412 mg/kg
- Objetivo: Sedimentos de agua marina - Valor: 0.0412 mg/kg
- (R)-p-menta-1,8-dieno; d-limoneno - CAS: 5989-27-5
 - Objetivo: agua dulce - Valor: 5.40 03
 - Objetivo: Agua marina - Valor: 0.54 03
 - Objetivo: Microorganismos en aguas residuales - Valor: 1.8 mg/l
 - Objetivo: Sedimentos de agua dulce - Valor: 1.32 mg/kg
 - Objetivo: Sedimentos de agua marina - Valor: 0.13 mg/kg
- Citral - CAS: 5392-40-5
 - Objetivo: agua dulce - Valor: 0.00678 03
 - Objetivo: Agua marina - Valor: 0.000678 03
 - Objetivo: Microorganismos en aguas residuales - Valor: 1.6 mg/l
 - Objetivo: Sedimentos de agua dulce - Valor: 0.125 mg/kg
 - Objetivo: Sedimentos de agua marina - Valor: 0.0125 mg/kg
- BENZYL SALICYLATE - CAS: 118-58-1
 - Objetivo: agua dulce - Valor: 0.0001 03
 - Objetivo: Agua marina - Valor: 0.00001 03
 - Objetivo: Microorganismos en aguas residuales - Valor: 10 mg/l
 - Objetivo: Sedimentos de agua dulce - Valor: 0.583 mg/kg
 - Objetivo: Sedimentos de agua marina - Valor: 0.583 mg/kg
- Alcohol bencílico - CAS: 100-51-6
 - Objetivo: agua dulce - Valor: 1 03
 - Objetivo: Agua marina - Valor: 0.1 03
 - Objetivo: Microorganismos en aguas residuales - Valor: 19 mg/l
 - Objetivo: Sedimentos de agua dulce - Valor: 0.223 mg/kg
 - Objetivo: Sedimentos de agua marina - Valor: 0.00223 mg/kg
- Coumarin - CAS: 91-64-5
 - Objetivo: agua dulce - Valor: 19 03
 - Objetivo: Agua marina - Valor: 1.9 03
 - Objetivo: Microorganismos en aguas residuales - Valor: 6.4 mg/l
 - Objetivo: Sedimentos de agua dulce - Valor: 0.15 mg/kg
 - Objetivo: Sedimentos de agua marina - Valor: 0.015 mg/kg
- alpha-Pinene - CAS: 7785-26-4
 - Objetivo: agua dulce - Valor: 0.303 03
 - Objetivo: Agua marina - Valor: 0.030 03
 - Objetivo: Microorganismos en aguas residuales - Valor: 6.6 mg/l
 - Objetivo: Sedimentos de agua dulce - Valor: 78.3 mg/kg
 - Objetivo: Sedimentos de agua marina - Valor: 7.83 mg/kg
- Tetramethylacetyloctahydronaphthalenes - CAS: 54464-57-2
 - Objetivo: agua dulce - Valor: 2.8 03
 - Objetivo: Agua marina - Valor: 0.28 03
 - Objetivo: Microorganismos en aguas residuales - Valor: 10 mg/l
 - Objetivo: Sedimentos de agua dulce - Valor: 3.73 mg/kg
 - Objetivo: Sedimentos de agua marina - Valor: 0.75 mg/kg
- Acetyl hexamethyl tetralin - CAS: 1506-02-1
 - Objetivo: agua dulce - Valor: 2.2 03
 - Objetivo: Agua marina - Valor: 0.22 03
 - Objetivo: Microorganismos en aguas residuales - Valor: 2.2 mg/l
 - Objetivo: Sedimentos de agua dulce - Valor: 1.72 mg/kg
 - Objetivo: Sedimentos de agua marina - Valor: 0.345 mg/kg
- HELIOTROPINE - CAS: 120-57-0
 - Objetivo: Agua marina - Valor: 2.5

8.2. Controles de la exposición

Ficha de datos de seguridad Fresca Foglia DOG Balsamic



Protección de los ojos:

Gafas de seguridad

Cumple con la norma EN 166

Protección de la piel:

No se requiere ninguna precaución especial para el uso normal.

Protección de las manos:

Utilizar guantes de protección que garanticen una protección total, por ejemplo de PVC, neopreno o caucho.

Protección respiratoria:

Riesgos térmicos:

Ninguno

Controles de la exposición ambiental:

Ninguno

Controles técnicos apropiados:

Ninguno

SECCIÓN 9. Propiedades físicas y químicas

9.1. Información sobre propiedades físicas y químicas básicas

Propiedad	Valor	Método:	Notas
Estado físico:	Líquido	--	--
Color:	amarillo	--	--
Olor:	agrumata, fiorita	--	--
Punto de fusión/punto de congelación:	N.A.	--	--
Punto de ebullición o punto inicial de ebullición e intervalo de ebullición:	N.A.	--	--
Inflamabilidad:	N.A.	--	--
Límite superior e inferior de explosividad:	N.A.	--	--
Punto de ignición (flash point, fp):	62°C	--	--
Temperatura de autoencendido:	N.A.	--	--
Temperatura de descomposición:	N.A.	--	--
pH:	7	--	--
Viscosidad cinemática:	N.A.	--	--
Hidrosolubilidad:	N.A.	--	--
Solubilidad en aceite:	liposolubile	--	--

Ficha de datos de seguridad Fresca Foglia DOG Balsamic



Coefficiente de reparto n-octanol/agua (valor logarítmico):	N.A.	--	--
Presión de vapor:	N.A.	--	--
Densidad y/o densidad relativa:	0.924-0.944 g/ml	--	--
Densidad de vapor relativa:	N.A.	--	--
Características de las partículas:			
Tamaño de las partículas:	N.A.	--	--

9.2. Otros datos

Ninguna otra información relevante

SECCIÓN 10. Estabilidad y reactividad

10.1. Reactividad

Estable en condiciones normales

10.2. Estabilidad química

Estable en condiciones normales

10.3. Posibilidad de reacciones peligrosas

Ninguno

10.4. Condiciones que deben evitarse

Estable en condiciones normales.

10.5. Materiales incompatibles

Ninguna en particular.

10.6. Productos de descomposición peligrosos

Ninguno.

SECCIÓN 11. Información toxicológica

11.1. Información sobre las clases de peligro definidas en el Reglamento (CE) n.o 1272/2008 Información toxicológica del producto:

Fresca Foglia DOG Balsamic

a) toxicidad aguda

No clasificado

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

b) corrosión o irritación cutáneas

El producto está clasificado: Skin Irrit. 2 H315

c) lesiones o irritación ocular graves

El producto está clasificado: Eye Irrit. 2 H319

d) sensibilización respiratoria o cutánea

El producto está clasificado: Skin Sens. 1B H317

e) mutagenicidad en células germinales

No clasificado

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

f) carcinogenicidad

No clasificado

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

g) toxicidad para la reproducción

No clasificado

Ficha de datos de seguridad

Fresca Foglia DOG Balsamic



A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

h) toxicidad específica en determinados órganos (STOT) – exposición única

No clasificado

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

i) toxicidad específica en determinados órganos (STOT) – exposición repetida

No clasificado

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

j) peligro de aspiración

No clasificado

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

La información toxicológica de las sustancias principales halladas en el producto:

Mentha Spicata herb oil (Chine) - CAS: 8008-79-5

a) toxicidad aguda:

Ensayo: LD50 - Vía: Oral > 2000 mg/kg

Ensayo: LC50 - Vía: Inhalación 5.43 mg/m³

L-Menthol nat - CAS: 2216-51-5

a) toxicidad aguda:

Ensayo: LD50 - Vía: Oral 3300 mg/kg

Ensayo: LC50 - Vía: Inhalación 5289 mg/m³

g) toxicidad para la reproducción:

Ensayo: NOAEL 667 mg/kg

Ethyl linalool - CAS: 10339-55-6

a) toxicidad aguda:

Ensayo: LD50 - Vía: Oral 2790 mg/kg

Ensayo: LC50 - Vía: Inhalación 3.2 mg/m³

g) toxicidad para la reproducción:

Ensayo: NOAEL 500 mg/kg

Methoxymethylbutanol - CAS: 56539-66-3

a) toxicidad aguda:

Ensayo: LD50 - Vía: Oral 5830 mg/kg

g) toxicidad para la reproducción:

Ensayo: NOAEL 1000 mg/kg

β-Metil-3-(1-metiletil)-bencenopropanal - CAS: 125109-85-5

a) toxicidad aguda:

Ensayo: LD50 - Vía: Oral > 2000 mg/kg

Euclptus Globulus leaf oil (Spain) - CAS: 8000-48-4

a) toxicidad aguda:

Ensayo: LD50 - Vía: Oral 4440 mg/kg

g) toxicidad para la reproducción:

Ensayo: NOAEL

1,3,4,6,7,8-Hexahidro-4,6,6,7,8,8-hexametilindeno[5,6-c]pirano; galaxólido; (HHCB) - CAS: 1222-05-5

a) toxicidad aguda:

Ensayo: LD50 - Vía: Oral - Especies: Rata > 4640 mg/kg

tetrahidro-2-isobutil-4-metilpiran-4-ol - CAS: 63500-71-0

a) toxicidad aguda:

Ensayo: LD50 - Vía: Oral 2000 mg/kg

Ensayo: LC50 - Vía: Inhalación > 1000 mg/m³

(R)-p-menta-1,8-dieno; d-limoneno - CAS: 5989-27-5

a) toxicidad aguda:

Ensayo: LD50 - Vía: Oral 4400 mg/kg

Citral - CAS: 5392-40-5

a) toxicidad aguda:

Ensayo: LD50 - Vía: Oral 6800 mg/kg

Ensayo: LC50 - Vía: Inhalación 34 mg/m³

g) toxicidad para la reproducción:

Ficha de datos de seguridad

Fresca Foglia DOG Balsamic



- Ensayo: NOAEL 1000 mg/kg
3-(para-cumenyl)-2-methylpropanaldehyde - CAS: 6658-48-6
a) toxicidad aguda:
Ensayo: LC50 - Vía: Oral > 5000 mg/kg
BENZYL SALICYLATE - CAS: 118-58-1
a) toxicidad aguda:
Ensayo: LD50 - Vía: Oral 2227 mg/kg
g) toxicidad para la reproducción:
Ensayo: NOAEL 180 mg/kg
Alcohol bencílico - CAS: 100-51-6
a) toxicidad aguda:
Ensayo: LD50 - Vía: Oral 1570 mg/kg
Benzoato de bencilo - CAS: 120-51-4
a) toxicidad aguda:
Ensayo: LD50 - Vía: Oral > 2000 mg/kg
Etanol; alcohol etílico - CAS: 64-17-5
d) sensibilización respiratoria o cutánea:
Ensayo: Sensibilización de la piel - Vía: Piel Negativo
e) mutagenicidad en células germinales:
Ensayo: Genotoxicidad - Especies: vitro Negativo
f) carcinogenicidad:
Ensayo: Carcinogenicidad - Especies: mam Positivo
g) toxicidad para la reproducción:
Ensayo: NOAEL - Vía: Inhalación - Especies: Rata = 1600 ppm

11.2. Información relativa a otros peligros

Propiedades de alteración endocrina:

Ningún perturbador endocrino presente en concentración $\geq 0.1\%$

SECCIÓN 12. Información ecológica

12.1. Toxicidad

Utilícese con técnicas de trabajo adecuadas, evitando la dispersión del producto en el medio ambiente.

Mentha Spicata herb oil (Chine) - CAS: 8008-79-5

a) Toxicidad acuática aguda:

Parámetro: LC50 - Especies: Peces 58.857 mg/l - Duración h.: 96

Parámetro: EC50 - Especies: Daphnia 35.409 mg/l - Duración h.: 48

Parámetro: EC50 - Especies: Algas 7.623 mg/l - Duración h.: 72

L-Menthol nat - CAS: 2216-51-5

a) Toxicidad acuática aguda:

Parámetro: LC50 - Especies: Peces 15.6 mg/l - Duración h.: 96

Parámetro: EC50 - Especies: Daphnia 26.6 mg/l - Duración h.: 48

Parámetro: EC50 - Especies: Algas 21.4 mg/l - Duración h.: 72

Ethyl linalool - CAS: 10339-55-6

a) Toxicidad acuática aguda:

Parámetro: LC50 - Especies: Peces 5 mg/l - Duración h.: 96

Parámetro: EC50 - Especies: Daphnia 23 mg/l - Duración h.: 48

Parámetro: EC50 - Especies: Algas 13.3 mg/l - Duración h.: 72

Methoxymethylbutanol - CAS: 56539-66-3

a) Toxicidad acuática aguda:

Parámetro: EC50 - Especies: Daphnia 1000 mg/l - Duración h.: 48

Parámetro: LC50 - Especies: Peces 100 mg/l - Duración h.: 76

Parámetro: LC50 - Especies: Algas 1000 mg/l - Duración h.: 72

β-Metil-3-(1-metiletil)-bencenopropanal - CAS: 125109-85-5

a) Toxicidad acuática aguda:

Parámetro: EC50 - Especies: Daphnia 7.7 mg/l - Duración h.: 48

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- Parámetro: LC50 - Especies: Peces 8.4 mg/l - Duración h.: 96
Euclyptus Globulus leaf oil (Spain) - CAS: 8000-48-4
- a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces 57 mg/l - Duración h.: 96
Parámetro: EC50 - Especies: Daphnia 0.475 mg/l - Duración h.: 48
Parámetro: EC50 - Especies: Algas 0.494 mg/l - Duración h.: 72
- 1,3,4,6,7,8-Hexahidro-4,6,6,7,8,8-hexametilindeno[5,6-c]pirano; galaxólido; (HHCB) - CAS: 1222-05-5
- a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces = 0.452 mg/l - Duración h.: 504
Parámetro: EC50 - Especies: Daphnia = 0.282 mg/l - Duración h.: 504
Parámetro: EC50 - Especies: Algas 0.72 mg/l - Duración h.: 72
- tetrahidro-2-isobutil-4-metilpiran-4-ol - CAS: 63500-71-0
- a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces 279 mg/l - Duración h.: 96
Parámetro: EC50 - Especies: Daphnia 320 mg/l - Duración h.: 48
Parámetro: EC50 - Especies: Algas 94 mg/l - Duración h.: 72
- (R)-p-menta-1,8-dieno; d-limoneno - CAS: 5989-27-5
- a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces 702 mg/l - Duración h.: 96
Parámetro: NOEC - Especies: Daphnia 0.074 mg/l - Duración h.: 48
Parámetro: NOEC - Especies: Algas 2.62 mg/l - Duración h.: 72
Parámetro: EC50 209 mg/l - Duración h.: 3
- Citral - CAS: 5392-40-5
- a) Toxicidad acuática aguda:
Parámetro: NOEC - Especies: Peces 4.6 mg/l - Duración h.: 96
Parámetro: EC50 - Especies: Daphnia 6.8 mg/l - Duración h.: 48
Parámetro: EC50 - Especies: Algas 103.8 mg/l - Duración h.: 72
- 3-(para-cumenyl)-2-methylpropanaldehyde - CAS: 6658-48-6
- a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces 3.02 mg/l - Duración h.: 96
- BENZYL SALICYLATE - CAS: 118-58-1
- a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces 1.03 mg/l - Duración h.: 96
Parámetro: NOEC - Especies: Daphnia 0.894 mg/l - Duración h.: 48
Parámetro: NOEC - Especies: Algas 0.502 mg/l - Duración h.: 72
- Alcohol bencílico - CAS: 100-51-6
- a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces 646 mg/l - Duración h.: 48
Parámetro: EC50 - Especies: Algas 640 mg/l - Duración h.: 96
Parámetro: EC50 - Especies: Daphnia 400 mg/l - Duración h.: 96
- Benzoato de bencilo - CAS: 120-51-4
- a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces 2.84 mg/l - Duración h.: 96
Parámetro: NOEC - Especies: Daphnia 1.73 mg/l - Duración h.: 48
Parámetro: NOEC - Especies: Algas 0.0647 mg/l - Duración h.: 72
- Salvia Lavandulifolia herb oil (Spain) - CAS: 8016-65-7
- a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces 90.144 mg/l - Duración h.: 96
Parámetro: EC50 - Especies: Daphnia 34.556 mg/l - Duración h.: 48
Parámetro: EC50 - Especies: Algas 37.680 mg/l - Duración h.: 72
- Carum Carvi fruit oil (Hungary) - CAS: 8000-42-8
- a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces 333.115 mg/l - Duración h.: 96
Parámetro: EC50 - Especies: Daphnia 19.461 mg/l - Duración h.: 48
Parámetro: EC50 - Especies: Algas 3.591 mg/l - Duración h.: 72

Ficha de datos de seguridad Fresca Foglia DOG Balsamic



Aguarrás - CAS: 8006-64-2

a) Toxicidad acuática aguda:

Parámetro: LC50 - Especies: Peces 29 mg/l - Duración h.: 96

Parámetro: EC50 - Especies: Daphnia 6.800 mg/l - Duración h.: 48

Parámetro: EC50 - Especies: Algas 17.100 mg/l - Duración h.: 72

alpha-Pinene - CAS: 7785-26-4

a) Toxicidad acuática aguda:

Parámetro: LC50 - Especies: Peces 0.33 mg/l - Duración h.: 96

Parámetro: EC50 - Especies: Daphnia 0.475 mg/l - Duración h.: 48

Parámetro: EC50 - Especies: Algas 0.247 mg/l - Duración h.: 72

Styrax Benzoin Gum extract (Sumatra) - CAS: 9000-05-9

a) Toxicidad acuática aguda:

Parámetro: LC50 - Especies: Peces 28.699 mg/l - Duración h.: 96

Parámetro: EC50 - Especies: Daphnia 16.068 mg/l - Duración h.: 48

Parámetro: EC50 - Especies: Algas 12.192 mg/l - Duración h.: 72

Tetramethylacetyloctahydronaphthalenes - CAS: 54464-57-2

a) Toxicidad acuática aguda:

Parámetro: LC50 - Especies: Peces 1.3 mg/l - Duración h.: 96

Parámetro: NOEC - Especies: Daphnia 0.73 mg/l - Duración h.: 48

Parámetro: NOEC - Especies: Algas 2.6 mg/l - Duración h.: 72

Acetyl hexamethyl tetralin - CAS: 1506-02-1

a) Toxicidad acuática aguda:

Parámetro: LC50 - Especies: Peces 2 mg/l - Duración h.: 96

Parámetro: EC50 - Especies: Daphnia 0.2 mg/l - Duración h.: 48

Parámetro: EC50 - Especies: Algas 0.612 mg/l - Duración h.: 72

HELIOTROPINE - CAS: 120-57-0

a) Toxicidad acuática aguda:

Parámetro: NOEC - Especies: Peces 1.6 mg/l - Duración h.: 96

Parámetro: NOEC - Especies: Daphnia 22 mg/l - Duración h.: 48

Parámetro: NOEC - Especies: Algas 1.1 mg/l - Duración h.: 72

Etanol; alcohol etílico - CAS: 64-17-5

a) Toxicidad acuática aguda:

Parámetro: LC50 - Especies: Peces 14.2 GL - Duración h.: 96

Parámetro: LC50 - Especies: Daphnia 29.6 GL - Duración h.: 24

Parámetro: EC50 - Especies: Algas 19000 mg/l - Duración h.: 96

Parámetro: EC50 - Especies: batteri 39.5 GL - Duración h.: 4

b) Toxicidad acuática crónica:

Parámetro: EC50 - Especies: Peces 14536 mg/l - Duración h.: 200

Parámetro: LC50 - Especies: Daphnia 9248 mg/l - Duración h.: 48

12.2. Persistencia y degradabilidad

Ninguno

N.A.

12.3. Potencial de bioacumulación

N.A.

12.4. Movilidad en el suelo

N.A.

12.5. Resultados de la valoración PBT y mPmB

Sustancias vPvB: Ninguna - Sustancias PBT: Ninguna

12.6. Propiedades de alteración endocrina

Ningún perturbador endocrino presente en concentración $\geq 0.1\%$

12.7. Otros efectos adversos

Ninguno

SECCIÓN 13. Consideraciones relativas a la eliminación

13.1. Métodos para el tratamiento de residuos

Recuperar si es posible. Operar conforme con las disposiciones locales y nacionales vigentes.

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SECCIÓN 14. Información relativa al transporte



- 14.1. Número ONU o número ID
ADR-UN Number: 3082
IATA-UN Number: 3082
IMDG-UN Number: 3082
- 14.2. Designación oficial de transporte de las Naciones Unidas
ADR-Shipping Name: SUSTANCIA LÍQUIDA PELIGROSA PARA EL MEDIO AMBIENTE, N.E.P. (mentha spicata herb oil (chine))
IATA-Shipping Name: SUSTANCIA LÍQUIDA PELIGROSA PARA EL MEDIO AMBIENTE, N.E.P. (mentha spicata herb oil (chine))
IMDG-Shipping Name: SUSTANCIA LÍQUIDA PELIGROSA PARA EL MEDIO AMBIENTE, N.E.P. (mentha spicata herb oil (chine))
- 14.3. Clase(s) de peligro para el transporte
ADR-Class: 9
ADR - Número de identificación del peligro: 90
IATA-Class: 9
IATA-Label: 9
IMDG-Class: 9
- 14.4. Grupo de embalaje
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III
- 14.5. Peligros para el medio ambiente
ADR-Contaminante ambiental: Sí
IMDG-Marine pollutant: Marine Pollutant
IMDG-EmS: F-A,
S-F
- 14.6. Precauciones particulares para los usuarios
ADR-Subsidiary hazards: -
ADR-S.P.: 274 335 375 601
ADR-Categoría de transporte (Código de restricción en túneles): 3 (E)
IATA-Passenger Aircraft: 964
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 964
IATA-S.P.: A97 A158 A197
IATA-ERG: 9L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: -
- 14.7. Transporte marítimo a granel con arreglo a los instrumentos de la OMI
N.A.
Limited Quantity: 5 L
Exempted Quantity: E1

SECCIÓN 15. Información reglamentaria

- 15.1. Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla
Dir. 98/24/CE (Riesgos relacionados con los agentes químicos durante el trabajo)

Ficha de datos de seguridad Fresca Foglia DOG Balsamic



Dir. 2000/39/CE (Valores límite de exposición profesional)
Reglamento (CE) n. 1907/2006 (REACH)
Reglamento (CE) n. 1272/2008 (CLP)
Reglamento (CE) n. 790/2009 (ATP 1 CLP) y (UE) n. 758/2013
Reglamento (UE) n. 2020/878
Reglamento (UE) n. 286/2011 (ATP 2 CLP)
Reglamento (UE) n. 618/2012 (ATP 3 CLP)
Reglamento (UE) n. 487/2013 (ATP 4 CLP)
Reglamento (UE) n. 944/2013 (ATP 5 CLP)
Reglamento (UE) n. 605/2014 (ATP 6 CLP)
Reglamento (UE) n. 2015/1221 (ATP 7 CLP)
Reglamento (UE) n. 2016/918 (ATP 8 CLP)
Reglamento (UE) n. 2016/1179 (ATP 9 CLP)
Reglamento (UE) n. 2017/776 (ATP 10 CLP)
Reglamento (UE) n. 2018/669 (ATP 11 CLP)
Reglamento (UE) n. 2018/1480 (ATP 13 CLP)
Reglamento (UE) n. 2019/521 (ATP 12 CLP)
Reglamento (UE) n. 2020/217 (ATP 14 CLP)
Reglamento (UE) n. 2020/1182 (ATP 15 CLP)
Reglamento (UE) n. 2021/643 (ATP 16 CLP)

Restricciones relacionadas con el producto o las sustancias contenidas, de acuerdo con el anexo XVII del Reglamento (CE) 1907/2006 (REACH) y las modificaciones posteriores:

Restricciones relacionadas con el producto:

Restricción 3

Restricciones relacionadas con las sustancias contenidas:

Restricción 40

Restricción 75

Compuestos orgánicos volátiles - COV = 3.53 %

Compuestos orgánicos volátiles - COV = 35.27 g/Kg

Compuestos orgánicos volátiles - COV = 32.94 g/l

Cuando sean aplicables, hágase referencia a las siguientes normativas:

Directiva 2012/18/EU (Seveso III)

Reglamento (CE) no 648/2004 (detergentes).

Dir. 2004/42/CE (directiva COV)

Disposiciones sobre la directiva EU 2012/18 (Seveso III):

Categoría Seveso III de acuerdo con el anexo 1, parte 1
el producto pertenece a la categoría: E2

15.2. Evaluación de la seguridad química

No se ha realizado ninguna evaluación de la seguridad química para la mezcla

Sustancias para las cuales se ha realizado una evaluación de la seguridad química

Ninguna

SECCIÓN 16. Otra información

Texto de las frases utilizadas en el párrafo 3:

H302 Nocivo en caso de ingestión.

H304 Puede ser mortal en caso de ingestión y penetración en las vías respiratorias.

H315 Provoca irritación cutánea.

H317 Puede provocar una reacción alérgica en la piel.

H411 Tóxico para los organismos acuáticos, con efectos nocivos duraderos.

H312 Nocivo en contacto con la piel.

H319 Provoca irritación ocular grave.

H226 Líquidos y vapores inflamables.

H400 Muy tóxico para los organismos acuáticos.

Ficha de datos de seguridad Fresca Foglia DOG Balsamic



H410 Muy tóxico para los organismos acuáticos, con efectos nocivos duraderos.
 H361 Se sospecha que puede perjudicar la fertilidad o dañar el feto.
 H412 Nocivo para los organismos acuáticos, con efectos nocivos duraderos.
 H332 Nocivo en caso de inhalación.
 H371 Puede provocar daños en los órganos.
 H225 Líquido y vapores muy inflamables.

Clase y categoría de peligro	Código	Descripción
Flam. Liq. 2	2.6/2	Líquidos inflamables, Categoría 2
Flam. Liq. 3	2.6/3	Líquidos inflamables, Categoría 3
Acute Tox. 4	3.1/4/Dermal	Toxicidad aguda (cutánea), Categoría 4
Acute Tox. 4	3.1/4/Inhal	Toxicidad aguda (por inhalación), Categoría 4
Acute Tox. 4	3.1/4/Oral	Toxicidad aguda (oral), Categoría 4
Asp. Tox. 1	3.10/1	Peligro por aspiración, Categoría 1
Skin Irrit. 2	3.2/2	Irritación cutánea, Categoría 2
Eye Irrit. 2	3.3/2	Irritación ocular, Categoría 2
Skin Sens. 1	3.4.2/1	Sensibilización cutánea, Categoría 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Sensibilización cutánea, Categoría 1,1A,1B
Skin Sens. 1A	3.4.2/1A	Sensibilización cutánea, Categoría 1A
Skin Sens. 1B	3.4.2/1B	Sensibilización cutánea, Categoría 1B
Repr. 2	3.7/2	Toxicidad para la reproducción, Categoría 2
STOT SE 2	3.8/2	Toxicidad específica en determinados órganos (exposiciones única), Categoría 2
Aquatic Acute 1	4.1/A1	Peligro agudo para el medio ambiente acuático, Categoría 1
Aquatic Chronic 1	4.1/C1	Peligro crónico (a largo plazo) para el medio ambiente acuático, Categoría 1
Aquatic Chronic 2	4.1/C2	Peligro crónico (a largo plazo) para el medio ambiente acuático, Categoría 2
Aquatic Chronic 3	4.1/C3	Peligro crónico (a largo plazo) para el medio ambiente acuático, Categoría 3

La presente ficha ha sido revisada en todas sus secciones en conformidad al Reglamento 2020/878. Clasificación y procedimiento utilizado para determinar la clasificación de las mezclas con arreglo al Reglamento (CE) nº 1272/2008 [CLP]:

Ficha de datos de seguridad Fresca Foglia DOG Balsamic



Clasificación con arreglo al Reglamento (CE) nº 1272/2008	Procedimiento de clasificación
Skin Irrit. 2, H315	Método de cálculo
Eye Irrit. 2, H319	Método de cálculo
Skin Sens. 1B, H317	Método de cálculo
Aquatic Chronic 2, H411	Método de cálculo

Este documento ha sido preparado por una persona competente que ha recibido un entrenamiento adecuado

Principales fuentes bibliográficas:

ECDIN: Environmental Chemicals Data and Information Network, Centro Común de Investigación, Comisión de las Comunidades Europeas

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 8ª ed., Van Nostrand Reinold

La información aquí detallada se basa en nuestros conocimientos hasta la fecha señalada arriba. Se refiere exclusivamente al producto indicado y no constituye garantía de cualidades particulares. El usuario debe asegurarse de la idoneidad y exactitud de dicha información en relación al uso específico que debe hacer del producto.

Esta ficha anula y sustituye toda edición precedente.

ADR:	Acuerdo europeo relativo al transporte internacional de mercancías peligrosas por carretera.
CAS:	Chemical Abstracts Service (de la American Chemical Society).
CLP:	Clasificación, etiquetado, embalaje.
DNEL:	Nivel sin efecto derivado.
EINECS:	Catálogo Europeo de Sustancias Químicas Comercializadas.
ETA:	Estimación de la toxicidad aguda
ETAmix:	Estimación de Toxicidad Aguda (Mezclas)
GefStoffVO:	Ordenanza sobre sustancias peligrosas, Alemania.
GHS:	Sistema Globalmente Armonizado de clasificación y etiquetado de productos químicos.
IATA:	Asociación de Transporte Aéreo Internacional.
IATA-DGR:	Normas aplicadas a las mercancías peligrosas por la "Asociación de Transporte Aéreo Internacional" (IATA).
ICAO:	Organización de la Aviación Civil Internacional.
ICAO-TI:	Instrucciones Técnicas de la "Organización de la Aviación Civil Internacional" (OACI).
IMDG:	Código marítimo internacional de mercancías peligrosas.
INCI:	Nomenclatura internacional de ingredientes cosméticos.
KSt:	Coefficiente de explosión.
LC50:	Concentración letal para el 50% de la población expuesta.
LD50:	Dosis letal para el 50% de la población expuesta.
NA:	No aplicable
PNEC:	Concentración prevista sin efecto.
RID:	Normas relativas al transporte internacional de mercancías peligrosas por ferrocarril.
STEL:	Nivel de exposición de corta duración.
STOT:	Toxicidad específica en determinados órganos.
TLV:	Valor límite del umbral.
TWA:	Promedio ponderado en el tiempo
WGK:	Clase de peligro para las aguas (Alemania).

**Ficha de datos de seguridad
Fresca Foglia DOG Balsamic**



Exposure Scenario, 23/07/2019

Substance identity	
Chemical name	Etanolo
CAS No.	64-17-5
EINECS No.	200-578-6

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8. **ES 8** Consumer use; Various products (PC1, PC3, PC8, PC18, PC23)

1. ES 1 Consumer use; Anti-freeze and de-icing products (PC4)

1.1 TITLE SECTION

Exposure Scenario name	Car care and maintenance products - De-icing and anti-icing applications
Date - Version	22/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Anti-freeze and de-icing products (PC4)

Environment Contributing Scenario

CS1 Covered by	ERC8d
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Consumer Contributing Scenario

CS2 Car Care - De-icing and anti-icing applications	PC4 - PC4_1
CS3 Car Care - De-icing and anti-icing applications	PC4 - PC4_2
CS4 Car Care - De-icing and anti-icing applications	PC4 - PC4_3

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario: Covered by (ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)
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Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

5726 Pa

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

No specific measures identified.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

1.2. CS2: Consumer Contributing Scenario: Car Care - De-icing and anti-icing applications (PC4)

Product Categories	Anti-freeze and de-icing products (PC4)
Product (Sub-)Categories	Washing car window (PC4_1)

Product (article) characteristics

Concentration of substance in product:

Covers percentage substance in the product up to 1 %.

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 0.5 g

Duration:

Covers use up to 0.017 h/event

Frequency:

Covers use up to 1 uses per day

Other conditions affecting consumers exposure

Room size: Covers use in a one car garage (>34 m³) under typical ventilation.

Temperature: Covers use at ambient temperatures.

1.2. CS3: Consumer Contributing Scenario: Car Care - De-icing and anti-icing applications (PC4)

Product Categories	Anti-freeze and de-icing products (PC4)
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Product (Sub-)Categories	Pouring into radiator (PC4_2)
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Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 10 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 2000 g

Duration:

Covers use up to 0.17 h/event

Frequency:

Covers use up to 1 uses per day

Other conditions affecting consumers exposure

Room size: Covers use in a one car garage (>34 m³) under typical ventilation.

Temperature: Covers use at ambient temperatures.

Additional conditions human health

Covers skin contact area up to 482 cm²

1.2. CS4: Consumer Contributing Scenario: Car Care - De-icing and anti-icing applications (PC4)

Product Categories	Anti-freeze and de-icing products (PC4)
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Product (Sub-)Categories	Lock de-icer (PC4_3)
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Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 4 g

Duration:

Covers use up to 0.25 h/event

Frequency:

Covers use up to 1 uses per day

Other conditions affecting consumers exposure

Room size: Covers use in a one car garage (>34 m³) under typical ventilation.

Temperature: Covers use at ambient temperatures.

Additional conditions human health

Covers skin contact area up to 214 cm²

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario: Covered by (ERC8d)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.00443 mg/L	N/A	0.00461
freshwater sediment	0.0172 mg/kg bw/day	N/A	0.00467
marine water	0.000508 mg/L	N/A	0.000643
marine sediment	0.00194 mg/kg bw/day	N/A	0.00064
soil	0.00123 mg/kg bw/day	N/A	0.00724

1.2. CS2: Consumer Contributing Scenario: Car Care - De-icing and anti-icing applications (PC4)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.000102 mg/m ³	N/A	8.94E-07
inhalative, local, short-term	0.000102 mg/m ³	N/A	8.94E-07
dermal, systemic, long-term	0 mg/kg bw/day	N/A	N/A
combined routes, systemic, long-term	N/A	N/A	8.94E-07

1.2. CS3: Consumer Contributing Scenario: Car Care - De-icing and anti-icing applications (PC4)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	1.84 mg/m ³	N/A	0.0161
inhalative, local, short-term	1.84 mg/m ³	N/A	0.0161
dermal, systemic, long-term	5.62 mg/kg bw/day	N/A	0.0272
combined routes, systemic, long-term	N/A	N/A	0.0434

1.2. CS4: Consumer Contributing Scenario: Car Care - De-icing and anti-icing applications (PC4)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.51 mg/m ³	N/A	0.00447
inhalative, local, short-term	0.51 mg/m ³	N/A	0.0447
dermal, systemic, long-term	14 mg/kg bw/day	N/A	0.0679
combined routes, systemic, long-term	N/A	N/A	0.0724

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

2. ES 2 Consumer use; Various products (PC39, PC28)

2.1 TITLE SECTION

Exposure Scenario name	Cosumer other uses
Date - Version	22/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Cosmetics, personal care products (PC39) - Perfumes, fragrances (PC28)

Environment Contributing Scenario

CS1 Covered by	ERC8a
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Consumer Contributing Scenario

CS2 Consumer	PC39 - PC28
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2.2 Conditions of use affecting exposure

2.2. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)
----------------------------------	---

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

5726 Pa

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

No specific measures identified.

2.2. CS2: Consumer Contributing Scenario: Consumer (PC39, PC28)

Product Categories	Cosmetics, personal care products - Perfumes, fragrances (PC39, PC28)
--------------------	---

2.3 Exposure estimation and reference to its source

2.3. CS1: Environment Contributing Scenario: Covered by (ERC8a)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.00236 mg/L	N/A	0.00246
freshwater sediment	0.00904 mg/kg bw/day	N/A	0.00246
marine water	0.000301 mg/L	N/A	0.000381
marine sediment	0.00115 mg/kg bw/day	N/A	0.00038
soil	0.00115 mg/kg bw/day	N/A	0.00676

2.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

3. ES 3 Use at industrial site

3.1 TITLE SECTION

Exposure Scenario name	Solvent
Date - Version	22/07/2019 - 1.0
Life Cycle Stage	Use at industrial site
Main user group	Industrial uses
Sector(s) of use	Industrial uses (SU3)

Environment Contributing Scenario

CS1 Covered by	ERC4
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Worker Contributing Scenario

CS2 Industrial	PROC1
CS3 Industrial	PROC2
CS4 Industrial	PROC3
CS5 Industrial	PROC4
CS6 Industrial	PROC5
CS7 Industrial	PROC7
CS8 Industrial	PROC8a
CS9 Industrial	PROC8b
CS10 Industrial	PROC10
CS11 Industrial	PROC13
CS12 Industrial	PROC15

3.2 Conditions of use affecting exposure

3.2. CS1: Environment Contributing Scenario: Covered by (ERC4)

Environmental release categories	Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)
----------------------------------	--

Product (article) characteristics

Vapour pressure:
< 10 kPa

Amount used, frequency and duration of use (or from service life)

Amounts used:

Annual site tonnage 3000 t(tonnes)/year

Maximum allowable site tonnage (MSafe): 124000 kg/day

Release type: Continuous release

Emission days: 300 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Treat air emission to provide the required removal efficiency of (%):	Air - minimum efficiency of: 90 %
Prevent discharge of undissolved substance to or recover from onsite wastewater.	Water - minimum efficiency of: 87 %

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant

STP effluent (m³/day): 2000

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Incineration, disposal or recycling at specific offsite provider Contain and dispose of waste according to local regulations.	Waste - minimum efficiency of: 99.98 %
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Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

Receiving surface water flow: 2000 m³/h

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

Additional Good Practice Advice:

Contain leaks or spills within cabinets with removable trays.

3.2. CS2: Worker Contributing Scenario: Industrial (PROC1)

Process Categories	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)
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Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Use in contained systems

Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

Other conditions affecting worker exposure

Temperature: Covers use at ambient temperatures.

3.2. CS3: Worker Contributing Scenario: Industrial (PROC2)

Process Categories	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)
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Product (article) characteristics	
Physical form of product: Liquid	
Vapour pressure: < 10 kPa	
Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
Amount used, frequency and duration of use/exposure	
Duration: Covers daily exposures up to 8 hours	
Technical and organisational conditions and measures	
Technical and organisational measures Use in contained systems Store substance within a closed system.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Personal protection Use suitable eye protection.	
Other conditions affecting worker exposure	
Temperature: Covers use at ambient temperatures.	
3.2. CS4: Worker Contributing Scenario: Industrial (PROC3)	
Process Categories	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)
Product (article) characteristics	
Physical form of product: Liquid	
Vapour pressure: < 10 kPa	
Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
Amount used, frequency and duration of use/exposure	
Duration: Covers daily exposures up to 8 hours	
Technical and organisational conditions and measures	
Technical and organisational measures Use in contained systems Store substance within a closed system.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Personal protection Use suitable eye protection.	
Other conditions affecting worker exposure	
Temperature: Covers use at ambient temperatures.	
3.2. CS5: Worker Contributing Scenario: Industrial (PROC4)	
Process Categories	Chemical production where opportunity for exposure arises (PROC4)
Product (article) characteristics	

Physical form of product: Liquid	
Vapour pressure: < 10 kPa	
Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Covers daily exposures up to 8 hours	
<i>Technical and organisational conditions and measures</i>	
Technical and organisational measures Use in contained systems Store substance within a closed system.	
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>	
Personal protection Use suitable eye protection.	
<i>Other conditions affecting worker exposure</i>	
Temperature: Covers use at ambient temperatures.	
3.2. CS6: Worker Contributing Scenario: Industrial (PROC5)	
Process Categories	Mixing or blending in batch processes (PROC5)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid	
Vapour pressure: < 10 kPa	
Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Covers daily exposures up to 8 hours	
<i>Technical and organisational conditions and measures</i>	
Technical and organisational measures Use in contained systems Store substance within a closed system.	
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>	
Personal protection Use suitable eye protection.	
<i>Other conditions affecting worker exposure</i>	
Temperature: Covers use at ambient temperatures.	
3.2. CS7: Worker Contributing Scenario: Industrial (PROC7)	
Process Categories	Industrial spraying (PROC7)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid	

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure**Duration:**

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures**Technical and organisational measures**

Use in contained systems

Store substance within a closed system.

Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Use suitable eye protection.

Other conditions affecting worker exposure

Temperature: Covers use at ambient temperatures.

3.2. CS8: Worker Contributing Scenario: Industrial (PROC8a)

Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)
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Product (article) characteristics**Physical form of product:**

Liquid

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure**Duration:**

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures**Technical and organisational measures**

Use in contained systems

Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Use suitable eye protection.

Other conditions affecting worker exposure

Temperature: Covers use at ambient temperatures.

3.2. CS9: Worker Contributing Scenario: Industrial (PROC8b)

Process Categories	Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)
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Product (article) characteristics**Physical form of product:**

Liquid

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure**Duration:**

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures**Technical and organisational measures**

Use in contained systems

Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Use suitable eye protection.

Other conditions affecting worker exposure

Temperature: Covers use at ambient temperatures.

3.2. CS10: Worker Contributing Scenario: Industrial (PROC10)**Process Categories**

Roller application or brushing (PROC10)

Product (article) characteristics**Physical form of product:**

Liquid

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure**Duration:**

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures**Technical and organisational measures**

Use in contained systems

Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Use suitable eye protection.

Other conditions affecting worker exposure

Temperature: Covers use at ambient temperatures.

3.2. CS11: Worker Contributing Scenario: Industrial (PROC13)**Process Categories**

Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics**Physical form of product:**

Liquid

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure**Duration:**

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures**Technical and organisational measures**

Use in contained systems

Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Use suitable eye protection.

Other conditions affecting worker exposure**Temperature:** Covers use at ambient temperatures.**3.2. CS12: Worker Contributing Scenario: Industrial (PROC15)****Process Categories**

Use as laboratory reagent (PROC15)

Product (article) characteristics**Physical form of product:**

Liquid

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure**Duration:**

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures**Technical and organisational measures**

Use in contained systems

Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Use suitable eye protection.

Other conditions affecting worker exposure**Temperature:** Covers use at ambient temperatures.**3.3 Exposure estimation and reference to its source****3.3. CS1: Environment Contributing Scenario: Covered by (ERC4)**

Release route	Release rate	Release estimation method
Air	0.98 %	N/A
Water	0.01 %	N/A
soil	0 %	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
wastewater treatment plant microbes	6.32 mg/L	N/A	0.0109
freshwater	0.577 mg/L	N/A	0.601
freshwater sediment	2.21 mg/kg bw/day	N/A	0.601
marine water	0.0635 mg/L	N/A	0.0804
marine sediment	0.0635 mg/kg bw/day	N/A	0.0805
soil	0.0525 mg/kg bw/day	N/A	0.309

3.3. CS2: Worker Contributing Scenario: Industrial (PROC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	9.6 mg/m ³	N/A	< 0.01
dermal, systemic, long-term	0.03 mg/kg bw/day	N/A	< 0.01
combined routes, systemic, long-term	N/A	N/A	< 0.01

3.3. CS3: Worker Contributing Scenario: Industrial (PROC2)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	9.6 mg/m ³	N/A	0.01
dermal, systemic, long-term	1.4 mg/kg bw/day	N/A	0.004
combined routes, systemic, long-term	N/A	N/A	0.0141

3.3. CS4: Worker Contributing Scenario: Industrial (PROC3)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	19 mg/m ³	N/A	0.02
dermal, systemic, long-term	0.69 mg/kg bw/day	N/A	0.002
combined routes, systemic, long-term	N/A	N/A	0.0222

3.3. CS5: Worker Contributing Scenario: Industrial (PROC4)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
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inhalative, systemic, long-term	38 mg/m ³	N/A	0.04
dermal, systemic, long-term	6.9 mg/kg bw/day	N/A	0.02
combined routes, systemic, long-term	N/A	N/A	0.0603

3.3. CS6: Worker Contributing Scenario: Industrial (PROC5)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	96 mg/m ³	N/A	0.101
dermal, systemic, long-term	14 mg/kg bw/day	N/A	0.04
combined routes, systemic, long-term	N/A	N/A	0.141

3.3. CS7: Worker Contributing Scenario: Industrial (PROC7)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	140 mg/m ³	N/A	0.151
dermal, systemic, long-term	43 mg/kg bw/day	N/A	0.125
combined routes, systemic, long-term	N/A	N/A	0.276

3.3. CS8: Worker Contributing Scenario: Industrial (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	96 mg/m ³	N/A	0.101
dermal, systemic, long-term	96 mg/kg bw/day	N/A	0.04
combined routes, systemic, long-term	N/A	N/A	0.141

3.3. CS9: Worker Contributing Scenario: Industrial (PROC8b)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	48 mg/m ³	N/A	0.05
dermal, systemic, long-term	14 mg/kg bw/day	N/A	0.04
combined routes, systemic, long-term	N/A	N/A	0.0904

3.3. CS10: Worker Contributing Scenario: Industrial (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
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inhalative, systemic, long-term	96 mg/m ³	N/A	0.101
dermal, systemic, long-term	27 mg/kg bw/day	N/A	0.08
combined routes, systemic, long-term	N/A	N/A	0.181

3.3. CS11: Worker Contributing Scenario: Industrial (PROC13)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	96 mg/m ³	N/A	0.101
dermal, systemic, long-term	14 mg/kg bw/day	N/A	0.04
combined routes, systemic, long-term	N/A	N/A	0.141

3.3. CS12: Worker Contributing Scenario: Industrial (PROC15)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	19 mg/m ³	N/A	0.02
dermal, systemic, long-term	0.34 mg/kg bw/day	N/A	< 0.01
combined routes, systemic, long-term	N/A	N/A	0.0212

3.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

4. ES 4 Use at industrial site

4.1 TITLE SECTION

Exposure Scenario name	Fuel
Date - Version	22/07/2019 - 1.0
Life Cycle Stage	Use at industrial site
Main user group	Industrial uses
Sector(s) of use	Industrial uses (SU3)

Environment Contributing Scenario

CS1 Covered by	ERC7
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Worker Contributing Scenario

CS2 Industrial	PROC1
CS3 Industrial	PROC2
CS4 Industrial	PROC3
CS5 Industrial	PROC8a
CS6 Industrial	PROC8b
CS7 Industrial	PROC15
CS8 Industrial	PROC16

4.2 Conditions of use affecting exposure

4.2. CS1: Environment Contributing Scenario: Covered by (ERC7)

Environmental release categories	Use of functional fluid at industrial site (ERC7)
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Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

< 10 kPa

Amount used, frequency and duration of use (or from service life)

Amounts used:

Annual site tonnage 20000 t(tonnes)/year

Maximum allowable site tonnage (MSafe): 14500000 kg/day

Release type: Continuous release

Emission days: 300 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Provide onsite wastewater removal efficiency of ³ (%):

Water - minimum efficiency of: 87 %

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant
Water - minimum efficiency of: = 87 %

STP effluent (m³/day): 2000

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Product residual disposal complies with applicable regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

Receiving surface water flow: 2000 m³/day

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

Additional Good Practice Advice:

Adequate closed storage facilities (e.g., bulk storage tanks, intermediate bulk containers, drums) are required.

4.2. CS2: Worker Contributing Scenario: Industrial (PROC1)

Process Categories

Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Handle substance within a closed system.
Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

4.2. CS3: Worker Contributing Scenario: Industrial (PROC2)

Process Categories

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration: Covers daily exposures up to 8 hours	
<i>Technical and organisational conditions and measures</i>	
Technical and organisational measures Handle substance within a closed system. Store substance within a closed system.	
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>	
Personal protection Use suitable eye protection.	
4.2. CS4: Worker Contributing Scenario: Industrial (PROC3)	
Process Categories	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid	
Vapour pressure: < 10 kPa	
Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Covers daily exposures up to 8 hours	
<i>Technical and organisational conditions and measures</i>	
Technical and organisational measures Handle substance within a closed system. Store substance within a closed system.	
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>	
Personal protection Use suitable eye protection.	
4.2. CS5: Worker Contributing Scenario: Industrial (PROC8a)	
Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid	
Vapour pressure: < 10 kPa	
Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Covers daily exposures up to 8 hours	
<i>Technical and organisational conditions and measures</i>	
Technical and organisational measures Handle substance within a closed system. Store substance within a closed system.	
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>	

Personal protection

Use suitable eye protection.

4.2. CS6: Worker Contributing Scenario: Industrial (PROC8b)**Process Categories**

Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

*Product (article) characteristics***Physical form of product:**

Liquid

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

*Amount used, frequency and duration of use/exposure***Duration:**

Covers daily exposures up to 8 hours

*Technical and organisational conditions and measures***Technical and organisational measures**

Handle substance within a closed system.

Store substance within a closed system.

*Conditions and measures related to personal protection, hygiene and health evaluation***Personal protection**

Use suitable eye protection.

4.2. CS7: Worker Contributing Scenario: Industrial (PROC15)**Process Categories**

Use as laboratory reagent (PROC15)

*Product (article) characteristics***Physical form of product:**

Liquid

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

*Amount used, frequency and duration of use/exposure***Duration:**

Covers daily exposures up to 8 hours

*Technical and organisational conditions and measures***Technical and organisational measures**

Handle substance within a closed system.

Store substance within a closed system.

*Conditions and measures related to personal protection, hygiene and health evaluation***Personal protection**

Use suitable eye protection.

4.2. CS8: Worker Contributing Scenario: Industrial (PROC16)**Process Categories**

Use of fuels (PROC16)

*Product (article) characteristics***Physical form of product:**

Liquid

Vapour pressure:

< 10 kPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure**Duration:**

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures**Technical and organisational measures**

Handle substance within a closed system.

Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Use suitable eye protection.

4.3 Exposure estimation and reference to its source**4.3. CS1: Environment Contributing Scenario: Covered by (ERC7)**

Release route	Release rate	Release estimation method
Air	0.0025 %	N/A
Water	1E-05 %	N/A
soil	0 %	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
wastewater treatment plant microbes	0.0421 mg/L	N/A	7.26E-05
freshwater	0.00657 mg/L	N/A	0.00684
freshwater sediment	0.00685 mg/kg bw/day	N/A	0.00685
marine water	0.00363 mg/L	N/A	0.00459
marine sediment	0.0139 mg/kg bw/day	N/A	0.00459
soil	0.00694 mg/kg bw/day	N/A	0.0408

4.3. CS2: Worker Contributing Scenario: Industrial (PROC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.019 mg/m ³	N/A	< 0.001
dermal, systemic, long-term	0.03 mg/kg bw/day	N/A	< 0.001
combined routes, systemic, long-term	N/A	N/A	< 0.001

4.3. CS3: Worker Contributing Scenario: Industrial (PROC2)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	9.6 mg/m ³	N/A	0.01
dermal, systemic, long-term	1.4 mg/kg bw/day	N/A	0.004
combined routes, systemic, long-term	N/A	N/A	0.0222

4.3. CS4: Worker Contributing Scenario: Industrial (PROC3)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	19 mg/m ³	N/A	0.02
dermal, systemic, long-term	0.69 mg/kg bw/day	N/A	0.002
combined routes, systemic, long-term	N/A	N/A	0.222

4.3. CS5: Worker Contributing Scenario: Industrial (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	96 mg/m ³	N/A	0.101
dermal, systemic, long-term	14 mg/m ³	N/A	0.04
combined routes, systemic, long-term	N/A	N/A	0.141

4.3. CS6: Worker Contributing Scenario: Industrial (PROC8b)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	48 mg/m ³	N/A	0.05
dermal, systemic, long-term	14 mg/kg bw/day	N/A	0.04
combined routes, systemic, long-term	N/A	N/A	0.0904

4.3. CS7: Worker Contributing Scenario: Industrial (PROC15)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	19 mg/m ³	N/A	0.02
dermal, systemic, long-term	0.34 mg/kg bw/day	N/A	< 0.001

combined routes, systemic, long-term	N/A	N/A	0.0112
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4.3. CS8: Worker Contributing Scenario: Industrial (PROC16)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	9.6 mg/m ³	N/A	0.01
dermal, systemic, long-term	0.34 mg/kg bw/day	N/A	< 0.001
combined routes, systemic, long-term	N/A	N/A	0.0111

4.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

5. ES 5 Widespread use by professional workers

5.1 TITLE SECTION

Exposure Scenario name	Solvent
Date - Version	23/07/2019 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)

Environment Contributing Scenario

CS1 Covered by	ERC8a - ERC8d
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Worker Contributing Scenario

CS2 General use from professional operators	PROC1
CS3 General use from professional operators	PROC2
CS4 General use from professional operators	PROC3
CS5 General use from professional operators	PROC4
CS6 General use from professional operators	PROC5 - PROC8a
CS7 General use from professional operators	PROC8b
CS8 General use from professional operators	PROC10
CS9 General use from professional operators	PROC11
CS10 General use from professional operators	PROC11
CS11 General use from professional operators	PROC13
CS12 General use from professional operators	PROC19

5.2 Conditions of use affecting exposure

5.2. CS1: Environment Contributing Scenario: Covered by (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Amount used, frequency and duration of use (or from service life)

Amounts used:

Annual site tonnage 0.1 t(tonnes)/year

Maximum allowable site tonnage (MSafe): 715 kg/day

Release type: Continuous release

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Treat air emission to provide the required removal efficiency of (%):	Air - minimum efficiency of: 90 %
Prevent discharge of undissolved substance to or recover from onsite wastewater.	

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Hazardous waste incineration	Waste - minimum efficiency of: 99.98 %
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5.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC1)

Process Categories	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

5.2. CS3: Worker Contributing Scenario: General use from professional operators (PROC2)

Process Categories	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

5.2. CS4: Worker Contributing Scenario: General use from professional operators (PROC3)

Process Categories	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

5.2. CS5: Worker Contributing Scenario: General use from professional operators (PROC4)

Process Categories

Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

5.2. CS6: Worker Contributing Scenario: General use from professional operators (PROC5, PROC8a)

Process Categories

Mixing or blending in batch processes - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC5, PROC8a)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

5.2. CS7: Worker Contributing Scenario: General use from professional operators (PROC8b)

Process Categories

Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

5.2. CS8: Worker Contributing Scenario: General use from professional operators (PROC10)**Process Categories**

Roller application or brushing (PROC10)

*Product (article) characteristics***Physical form of product:**

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

*Amount used, frequency and duration of use/exposure***Duration:**

Covers daily exposures up to 8 hours

*Conditions and measures related to personal protection, hygiene and health evaluation***Personal protection**

Use suitable eye protection.

5.2. CS9: Worker Contributing Scenario: General use from professional operators (PROC11)**Process Categories**

Non industrial spraying (PROC11)

*Product (article) characteristics***Physical form of product:**

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

*Amount used, frequency and duration of use/exposure***Duration:**

Covers daily exposures up to 8 hours

*Technical and organisational conditions and measures***Technical and organisational measures**

Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

*Conditions and measures related to personal protection, hygiene and health evaluation***Personal protection**

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Other conditions affecting worker exposure

Indoor use

5.2. CS10: Worker Contributing Scenario: General use from professional operators (PROC11)**Process Categories**

Non industrial spraying (PROC11)

*Product (article) characteristics***Physical form of product:**

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

*Amount used, frequency and duration of use/exposure***Duration:**

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Wear a respirator conforming to EN140.

Other conditions affecting worker exposure

Outdoor use

5.2. CS11: Worker Contributing Scenario: General use from professional operators (PROC13)

Process Categories

Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

Wear suitable gloves tested to EN374.

5.2. CS12: Worker Contributing Scenario: General use from professional operators (PROC19)

Process Categories

Manual activities involving hand contact (PROC19)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

Wear suitable gloves tested to EN374.

5.3 Exposure estimation and reference to its source

5.3. CS1: Environment Contributing Scenario: Covered by (ERC8a, ERC8d)

Release route	Release rate	Release estimation method
Air	0.98 %	N/A
Water	0.01 %	N/A

soil	0.01 %	N/A
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protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
wastewater treatment plant microbes	0.000173 mg/L	N/A	2.98E-07
freshwater	0.00238 mg/L	N/A	0.00248
freshwater sediment	0.00912 mg/kg bw/day	N/A	0.00248
marine sediment	0.000303 mg/L	N/A	0.000384
marine sediment	0.00116 mg/kg bw/day	N/A	0.000383
soil	0.00116 mg/kg bw/day	N/A	0.00682

5.3. CS2: Worker Contributing Scenario: General use from professional operators (PROC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.019 mg/m ³	N/A	< 0.001
dermal, systemic, long-term	0.03 mg/kg bw/day	N/A	< 0.001
combined routes, systemic, long-term	N/A	N/A	< 0.001

5.3. CS3: Worker Contributing Scenario: General use from professional operators (PROC2)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	38 mg/m ³	N/A	0.04
dermal, systemic, long-term	1.4 mg/kg bw/day	N/A	0.004
combined routes, systemic, long-term	N/A	N/A	0.0443

5.3. CS4: Worker Contributing Scenario: General use from professional operators (PROC3)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	48 mg/m ³	N/A	0.05
dermal, systemic, long-term	0.69 mg/kg bw/day	N/A	0.002
combined routes, systemic, long-term	N/A	N/A	0.0524

5.3. CS5: Worker Contributing Scenario: General use from professional operators (PROC4)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	96 mg/m ³	N/A	0.101
dermal, systemic, long-term	6.9 mg/kg bw/day	N/A	0.02
combined routes, systemic, long-term	N/A	N/A	0.121

5.3. CS6: Worker Contributing Scenario: General use from professional operators (PROC5, PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	190 mg/m ³	N/A	0.202
dermal, systemic, long-term	14 mg/kg bw/day	N/A	0.04
combined routes, systemic, long-term	N/A	N/A	0.242

5.3. CS7: Worker Contributing Scenario: General use from professional operators (PROC8b)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	96 mg/m ³	N/A	0.202
dermal, systemic, long-term	14 mg/kg bw/day	N/A	0.04
combined routes, systemic, long-term	N/A	N/A	0.141

5.3. CS8: Worker Contributing Scenario: General use from professional operators (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	190 mg/m ³	N/A	0.202
dermal, systemic, long-term	27 mg/kg bw/day	N/A	0.08
combined routes, systemic, long-term	N/A	N/A	0.282

5.3. CS9: Worker Contributing Scenario: General use from professional operators (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	290 mg/m ³	N/A	0.303
dermal, systemic, long-term	21 mg/kg bw/day	N/A	0.062
combined routes, systemic, long-term	N/A	N/A	0.365

5.3. CS10: Worker Contributing Scenario: General use from professional operators (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	67 mg/m ³	N/A	0.071
dermal, systemic, long-term	21 mg/kg bw/day	N/A	0.062
combined routes, systemic, long-term	N/A	N/A	0.133

5.3. CS11: Worker Contributing Scenario: General use from professional operators (PROC13)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	190 mg/m ³	N/A	0.202
dermal, systemic, long-term	2.7 mg/kg bw/day	N/A	0.008
combined routes, systemic, long-term	N/A	N/A	0.21

5.3. CS12: Worker Contributing Scenario: General use from professional operators (PROC19)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	190 mg/m ³	N/A	0.202
dermal, systemic, long-term	28 mg/kg bw/day	N/A	0.082
combined routes, systemic, long-term	N/A	N/A	0.284

5.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

6. ES 6 Widespread use by professional workers

6.1 TITLE SECTION

Exposure Scenario name	Fuel
Date - Version	23/07/2019 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)

Environment Contributing Scenario

CS1 Covered by	ERC9a - ERC9b
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Worker Contributing Scenario

CS2 General use from professional operators	PROC1
CS3 General use from professional operators	PROC2
CS4 General use from professional operators	PROC3
CS5 General use from professional operators	PROC8a
CS6 General use from professional operators	PROC8b
CS7 General use from professional operators	PROC16

6.2 Conditions of use affecting exposure

6.2. CS1: Environment Contributing Scenario: Covered by (ERC9a, ERC9b)

Environmental release categories	Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Amount used, frequency and duration of use (or from service life)

Amounts used:

Annual site tonnage 1 t(tonnes)/year

Maximum allowable site tonnage (MSafe): 7190 kg/day

Release type: Continuous release

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Prevent discharge of undissolved substance to or recover from onsite wastewater.

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Product residual disposal complies with applicable regulations.

6.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC1)

Process Categories	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Technical and organisational conditions and measures

Technical and organisational measures

Handle substance within a closed system.
Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

6.2. CS3: Worker Contributing Scenario: General use from professional operators (PROC2)

Process Categories	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Technical and organisational conditions and measures

Technical and organisational measures

Handle substance within a closed system.
Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

6.2. CS4: Worker Contributing Scenario: General use from professional operators (PROC3)

Process Categories	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Technical and organisational conditions and measures

Technical and organisational measures

Handle substance within a closed system.
Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Use suitable eye protection.

6.2. CS5: Worker Contributing Scenario: General use from professional operators (PROC8a)

Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Technical and organisational conditions and measures**Technical and organisational measures**

Handle substance within a closed system.
Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Use suitable eye protection.

6.2. CS6: Worker Contributing Scenario: General use from professional operators (PROC8b)**Process Categories**

Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

Product (article) characteristics**Physical form of product:**

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Technical and organisational conditions and measures**Technical and organisational measures**

Handle substance within a closed system.
Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Use suitable eye protection.

6.2. CS7: Worker Contributing Scenario: General use from professional operators (PROC16)**Process Categories**

Use of fuels (PROC16)

Product (article) characteristics**Physical form of product:**

Liquid, vapour pressure 0,5 - 10 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Technical and organisational conditions and measures**Technical and organisational measures**

Handle substance within a closed system.
Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Use suitable eye protection.

6.3 Exposure estimation and reference to its source**6.3. CS1: Environment Contributing Scenario: Covered by (ERC9a, ERC9b)**

Release route	Release rate	Release estimation method
Air	0.01 %	N/A
Water	1E-05 %	N/A

soil	0 %	N/A
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6.3. CS2: Worker Contributing Scenario: General use from professional operators (PROC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.019 mg/m ³	N/A	< 0.001
dermal, systemic, long-term	0.03 mg/kg bw/day	N/A	< 0.001
combined routes, systemic, long-term	N/A	N/A	< 0.001

6.3. CS3: Worker Contributing Scenario: General use from professional operators (PROC2)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	38 mg/m ³	N/A	0.04
dermal, systemic, long-term	1.4 mg/kg bw/day	N/A	0.004
combined routes, systemic, long-term	N/A	N/A	0.0443

6.3. CS4: Worker Contributing Scenario: General use from professional operators (PROC3)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	48 mg/m ³	N/A	0.05
dermal, systemic, long-term	0.69 mg/kg bw/day	N/A	0.002
combined routes, systemic, long-term	N/A	N/A	0.0524

6.3. CS5: Worker Contributing Scenario: General use from professional operators (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	190 mg/m ³	N/A	0.202
dermal, systemic, long-term	14 mg/kg bw/day	N/A	0.04
combined routes, systemic, long-term	N/A	N/A	0.242

6.3. CS6: Worker Contributing Scenario: General use from professional operators (PROC8b)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	96 mg/m ³	N/A	0.101
dermal, systemic, long-term	14 mg/kg bw/day	N/A	0.04

combined routes, systemic, long-term	N/A	N/A	0.141
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6.3. CS7: Worker Contributing Scenario: General use from professional operators (PROC16)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	19 mg/m ³	N/A	0.02
dermal, systemic, long-term	0.34 mg/kg bw/day	N/A	< 0.001
combined routes, systemic, long-term	N/A	N/A	0.0212

6.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

7. ES 7 Consumer use; Fuels (PC13)

7.1 TITLE SECTION

Exposure Scenario name	Fuel
Date - Version	23/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Fuels (PC13)

Environment Contributing Scenario

CS1 Covered by	ERC9b
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Consumer Contributing Scenario

CS2 Consumer	PC13 - PC13_1
CS3 Consumer	PC13 - PC13_2
CS4 Consumer	PC13 - PC13_3
CS5 Consumer	PC13 - PC13_4

7.2 Conditions of use affecting exposure

7.2. CS1: Environment Contributing Scenario: Covered by (ERC9b)

Environmental release categories	Widespread use of functional fluid (outdoor) (ERC9b)
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Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

5726 Pa

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Product residual disposal complies with applicable regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

7.2. CS2: Consumer Contributing Scenario: Consumer (PC13)

Product Categories	Fuels (PC13)
Product (Sub-)Categories	Liquid: Automotive Refuelling (PC13_1)

Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 85 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 37500 g

Duration:

Exposure duration 0.05 h/event

Frequency:

Covers use up to 51 times per year

Other conditions affecting consumers exposure

Outdoor use

Additional conditions human healthCovers skin contact area up to 210 cm²**7.2. CS3: Consumer Contributing Scenario: Consumer (PC13)****Product Categories**

Fuels (PC13)

Product (Sub-)Categories

Liquid Scooter Refuelling (PC13_2)

*Product (article) characteristics***Concentration of substance in product:**

Covers concentrations up to 85 %

*Amount used, frequency and duration of use/exposure***Amounts used:**

Amount per use 37500 g

Duration:

Exposure duration 0.033 h/event

Frequency:

Covers use up to 51 times per year

Other conditions affecting consumers exposure

Outdoor use

Additional conditions human healthCovers skin contact area up to 210 cm²**7.2. CS4: Consumer Contributing Scenario: Consumer (PC13)****Product Categories**

Fuels (PC13)

Product (Sub-)Categories

Liquid, Garden equipment - Use (PC13_3)

*Product (article) characteristics***Concentration of substance in product:**

Covers concentrations up to 15 %

*Amount used, frequency and duration of use/exposure***Amounts used:**

Amount per use 750 g

Duration:

Exposure duration 2 h/event

Frequency:

Covers use up to 25 times per year

Other conditions affecting consumers exposure

Outdoor use

Additional conditions human healthCovers skin contact area up to 210 cm²**7.2. CS5: Consumer Contributing Scenario: Consumer (PC13)****Product Categories**

Fuels (PC13)

Product (Sub-)Categories	Liquid: Garden equipment - Refuelling (PC13_4)
Product (article) characteristics	
Concentration of substance in product: Covers concentrations up to 85 %	
Amount used, frequency and duration of use/exposure	
Amounts used: Amount per use 750 g	
Duration: Exposure duration 0.05 h/event	
Frequency: Covers use up to 25 times per year	
Other conditions affecting consumers exposure	
Room size: Covers use in a one car garage (>34 m ³) under typical ventilation.	
Temperature: Covers use at ambient temperatures.	
Additional conditions human health Covers skin contact area up to 210 cm ²	

7.3 Exposure estimation and reference to its source

7.3. CS1: Environment Contributing Scenario: Covered by (ERC9b)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.0236 mg/L	N/A	0.00246
freshwater sediment	0.00905 mg/kg bw/day	N/A	0.00246
marine water	0.0003 mg/L	N/A	0.00038
marine sediment	0.0015 mg/kg bw/day	N/A	0.00038
marine sediment	0.0015 mg/kg bw/day	N/A	0.00676

7.2. CS2: Consumer Contributing Scenario: Consumer (PC13)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.187 mg/m ³	N/A	0.00164
inhalative, local, short-term	1.3 mg/m ³	N/A	0.0114
dermal, systemic, long-term	0.117 mg/kg bw/day	N/A	8.1E-05
combined routes, systemic, long-term	N/A	N/A	0.0114

7.2. CS3: Consumer Contributing Scenario: Consumer (PC13)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.0612 mg/m ³	N/A	0.000544

inhalative, local, short-term	0.434 mg/m ³	N/A	0.0038
dermal, systemic, long-term	0.117 mg/kg bw/day	N/A	8.1E-05
combined routes, systemic, long-term	N/A	N/A	0.00388

7.2. CS4: Consumer Contributing Scenario: Consumer (PC13)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.0764 mg/m ³	N/A	0.00067
inhalative, local, short-term	1.09 mg/m ³	N/A	0.00956
dermal, systemic, long-term	4.13 mg/kg bw/day	N/A	0.0014
combined routes, systemic, long-term	N/A	N/A	0.0109

7.2. CS5: Consumer Contributing Scenario: Consumer (PC13)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.079 mg/m ³	N/A	0.000692
inhalative, local, short-term	1.12 mg/m ³	N/A	0.00982
dermal, systemic, long-term	0.117 mg/kg bw/day	N/A	3.98E-05
combined routes, systemic, long-term	N/A	N/A	0.00986

7.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

8. ES 8 Consumer use; Various products (PC1, PC3, PC8, PC18, PC23)

8.1 TITLE SECTION

Exposure Scenario name	Cosumer other uses
Date - Version	23/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Adhesives, sealants (PC1) - Air care products (PC3) - Biocidal products (PC8) - Ink and toners (PC18) - Leather treatment products (PC23) - Lubricants, greases, release products (PC24) - Plant protection products (PC27) - Polishes and wax blends (PC31) - Textile dyes and impregnating products (PC34)

Environment Contributing Scenario

CS1 Covered by	ERC8a - ERC8d
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Consumer Contributing Scenario

CS2 Consumer	PC1 - PC1_1
CS3 Consumer	PC1 - PC1_3
CS4 Consumer	PC1 - PC1_4
CS5 Consumer	PC3 - PC3_1
CS6 Consumer	PC3 - PC3_2
CS7 Consumer	PC8 - PC35_1, PC8_1
CS8 Consumer	PC8 - PC8_2, PC35_2
CS9 Consumer	PC8 - PC8_3, PC35_3
CS10 Consumer	PC18
CS11 Consumer	PC23 - PC23_1, PC31_1
CS12 Consumer	PC23 - PC23_2, PC31_2
CS13 Consumer	PC24 - PC16_1, PC17_1, PC24_1, 36
CS14 Consumer	PC27
CS15 Consumer	PC31 - PC23_1, PC31_1
CS16 Consumer	PC31 - PC23_2, PC31_2

8.2 Conditions of use affecting exposure

8.2. CS1: Environment Contributing Scenario: Covered by (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure > 10 kPa at STP

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Hazardous waste incineration

Waste - minimum efficiency of: 99.8 %

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

Receiving surface water flow: 2000 m³/day

8.2. CS2: Consumer Contributing Scenario: Consumer (PC1)

Product Categories Adhesives, sealants (PC1)

Product (Sub-)Categories Glues, hobby use (PC1_1)

Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 70 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 50 g

Duration:

Exposure duration 4 h/event

Frequency:

Covers exposure up to 1 events per day

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Additional conditions human health

Covers skin contact area up to 35 cm²

8.2. CS3: Consumer Contributing Scenario: Consumer (PC1)

Product Categories Adhesives, sealants (PC1)

Product (Sub-)Categories Glue from spray (PC1_3)

Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 30 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 50 g

Duration:

Exposure duration 4 h/event

Frequency:

Covers exposure up to 6 times per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Additional conditions human health

Covers skin contact area up to 35 cm²

8.2. CS4: Consumer Contributing Scenario: Consumer (PC1)

Product Categories Adhesives, sealants (PC1)

Product (Sub-)Categories	Sealants (PC1_4)
<i>Product (article) characteristics</i>	
Concentration of substance in product: Covers concentrations up to 30 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Amounts used: Amount per use 50 g	
Duration: Exposure duration 1 h/event	
Frequency: Covers exposure up to 1 events per day	
<i>Other conditions affecting consumers exposure</i>	
Room size: Covers use in room size of 20 m ³	
Additional conditions human health Covers skin contact area up to 35 cm ²	
8.2. CS5: Consumer Contributing Scenario: Consumer (PC3)	
Product Categories	Air care products (PC3)
Product (Sub-)Categories	Air care, instant action (aerosol sprays) (PC3_1)
<i>Product (article) characteristics</i>	
Concentration of substance in product: Covers concentrations up to 40 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Amounts used: Amount per use 50 g	
Duration: Exposure duration 0.3 h/event	
Frequency: Covers exposure up to 4 events per day	
<i>Other conditions affecting consumers exposure</i>	
Room size: Covers use in room size of 20 m ³	
Additional conditions human health Covers skin contact area up to 35 cm ²	
8.2. CS6: Consumer Contributing Scenario: Consumer (PC3)	
Product Categories	Air care products (PC3)
Product (Sub-)Categories	Air care, continuous action (solid and liquid) (PC3_2)
<i>Product (article) characteristics</i>	
Concentration of substance in product: Covers concentrations up to 10 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Amounts used: Amount per use 50 g	
Duration: Exposure duration 8 h/event	
Frequency:	

Covers exposure up to 1 events per day

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Additional conditions human health

Covers skin contact area up to 35 cm²

8.2. CS7: Consumer Contributing Scenario: Consumer (PC8)

Product Categories	Biocidal products (PC8)
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Product (Sub-)Categories	Laundry and dish washing products (PC35_1, PC8_1)
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Product (article) characteristics

Concentration of substance in product:

Covers percentage substance in the product up to 5 %.

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 15 g

Duration:

Exposure duration 0.5 h/event

Frequency:

Covers exposure up to 1 events per day

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Additional conditions human health

Covers skin contact area up to 857 cm²

8.2. CS8: Consumer Contributing Scenario: Consumer (PC8)

Product Categories	Biocidal products (PC8)
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Product (Sub-)Categories	Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners) (PC8_2, PC35_2)
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Product (article) characteristics

Concentration of substance in product:

Covers percentage substance in the product up to 5 %.

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 50 g

Duration:

Exposure duration 0.3 h/event

Frequency:

Covers exposure up to 125 times per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Additional conditions human health

Covers skin contact area up to 857 cm²

8.2. CS9: Consumer Contributing Scenario: Consumer (PC8)

Product Categories	Biocidal products (PC8)
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Product (Sub-)Categories	Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) (PC8_3, PC35_3)
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Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 15 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 50 g

Duration:

Exposure duration 0.2 h/event

Frequency:

Covers exposure up to 125 times per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Ventilation rate: Covers use under typical household ventilation.

Additional conditions human health

Covers skin contact area up to 428 cm²

8.2. CS10: Consumer Contributing Scenario: Consumer (PC18)

Product Categories

Ink and toners (PC18)

Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 50 g

Duration:

Exposure duration 8 h/event

Frequency:

Covers exposure up to 1 uses per day

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Ventilation rate: Covers use under typical household ventilation.

Additional conditions human health

Covers skin contact area up to 71 cm²

8.2. CS11: Consumer Contributing Scenario: Consumer (PC23)

Product Categories

Leather treatment products (PC23)

Product (Sub-)Categories

Polishes, wax/cream (floor, furniture, shoes) (PC23_1, PC31_1)

Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 50 g

Duration:

Exposure duration 1.2 h/event

Frequency:

Covers exposure up to 29 times per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Ventilation rate: Covers use under typical household ventilation.

Additional conditions human health

Covers skin contact area up to 430 cm²

8.2. CS12: Consumer Contributing Scenario: Consumer (PC23)

Product Categories	Leather treatment products (PC23)
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Product (Sub-)Categories	Polishes, spray (furniture, shoes) (PC23_2, PC31_2)
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Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 20 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 50 g

Duration:

Exposure duration 0.3 h/event

Frequency:

Covers exposure up to 8 times per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Ventilation rate: Covers use under typical household ventilation.

Additional conditions human health

Covers skin contact area up to 430 cm²

8.2. CS13: Consumer Contributing Scenario: Consumer (PC24)

Product Categories	Lubricants, greases, release products (PC24)
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Product (Sub-)Categories	Liquids (PC16_1, PC17_1, PC24_1, 36)
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Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 20 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 50 g

Duration:

Exposure duration 0.2 h/event

Frequency:

Covers exposure up to 4 times per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Ventilation rate: Covers use under typical household ventilation.

Additional conditions human health

Covers skin contact area up to 468 cm²

8.2. CS14: Consumer Contributing Scenario: Consumer (PC27)

Product Categories	Plant protection products (PC27)
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Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure**Amounts used:**

Amount per use 50 g

Duration:

Exposure duration 0.3 h/event

Frequency:

Covers exposure up to 29 times per year

Other conditions affecting consumers exposure**Room size:** Covers use in room size of 20 m³**Ventilation rate:** Covers use under typical household ventilation.**Additional conditions human health**Covers skin contact area up to 857 cm²**8.2. CS15: Consumer Contributing Scenario: Consumer (PC31)****Product Categories**

Polishes and wax blends (PC31)

Product (Sub-)Categories

Polishes, wax/cream (floor, furniture, shoes) (PC23_1, PC31_1)

Product (article) characteristics**Concentration of substance in product:**

Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure**Amounts used:**

Amount per use 50 g

Duration:

Exposure duration 1.2 h/event

Frequency:

Covers exposure up to 29 times per year

Other conditions affecting consumers exposure**Room size:** Covers use in room size of 20 m³**Ventilation rate:** Covers use under typical household ventilation.**Additional conditions human health**Covers skin contact area up to 430 cm²**8.2. CS16: Consumer Contributing Scenario: Consumer (PC31)****Product Categories**

Polishes and wax blends (PC31)

Product (Sub-)Categories

Polishes, spray (furniture, shoes) (PC23_2, PC31_2)

Product (article) characteristics**Concentration of substance in product:**

Covers concentrations up to 10 %

Amount used, frequency and duration of use/exposure**Amounts used:**

Amount per use 50 g

Duration:

Exposure duration 0.3 h/event

Frequency:

Covers exposure up to 8 times per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Ventilation rate: Covers use under typical household ventilation.

Additional conditions human health

Covers skin contact area up to 430 cm²

8.3 Exposure estimation and reference to its source

8.3. CS1: Environment Contributing Scenario: Covered by (ERC8a, ERC8d)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
wastewater treatment plant microbes	0.273 mg/L	N/A	0.000471
freshwater	0.0297 mg/L	N/A	0.0309
freshwater sediment	0.114 mg/kg bw/day	N/A	0.031
marine water	0.00304 mg/L	N/A	0.00385
marine sediment	0.0116 mg/kg bw/day	N/A	0.00383
soil	0.116 mg/kg bw/day	N/A	0.00676

8.2. CS2: Consumer Contributing Scenario: Consumer (PC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	111 mg/m ³	N/A	0.973
inhalative, local, short-term	111 mg/m ³	N/A	0.973
dermal, systemic, long-term	3.28 mg/kg bw/day	N/A	0.0159
combined routes, systemic, long-term	N/A	N/A	0.989

8.2. CS3: Consumer Contributing Scenario: Consumer (PC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.788 mg/m ³	N/A	0.00682
inhalative, local, short-term	47.3 mg/m ³	N/A	0.414
dermal, systemic, long-term	1.4 mg/kg bw/day	N/A	0.000112
combined routes, systemic, long-term	N/A	N/A	0.212

8.2. CS4: Consumer Contributing Scenario: Consumer (PC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
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inhalative, systemic, long-term	23.5 mg/m ³	N/A	0.206
inhalative, local, short-term	23.5 mg/m ³	N/A	0.206
dermal, systemic, long-term	1.4 mg/kg bw/day	N/A	0.00679
combined routes, systemic, long-term	N/A	N/A	0.212

8.2. CS5: Consumer Contributing Scenario: Consumer (PC3)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	38.7 mg/m ³	N/A	0.339
inhalative, local, short-term	38.7 mg/m ³	N/A	0.339
dermal, systemic, long-term	7.51 mg/kg bw/day	N/A	0.0364
combined routes, systemic, long-term	N/A	N/A	0.375

8.2. CS6: Consumer Contributing Scenario: Consumer (PC3)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	17.1 mg/m ³	N/A	0.15
inhalative, local, short-term	17.1 mg/m ³	N/A	0.15
dermal, systemic, long-term	0.469 mg/kg bw/day	N/A	0.00227
combined routes, systemic, long-term	N/A	N/A	0.152

8.2. CS7: Consumer Contributing Scenario: Consumer (PC8)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.672 mg/m ³	N/A	0.00589
inhalative, local, short-term	0.672 mg/m ³	N/A	0.00589
dermal, systemic, long-term	5.63 mg/kg bw/day	N/A	0.000273
combined routes, systemic, long-term	N/A	N/A	0.00616

8.2. CS8: Consumer Contributing Scenario: Consumer (PC8)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.543 mg/m ³	N/A	0.00476
inhalative, local, short-term	1.55 mg/m ³	N/A	0.0135

dermal, systemic, long-term	5.63 mg/kg bw/day	N/A	0.00956
combined routes, systemic, long-term	N/A	N/A	0.0231

8.2. CS9: Consumer Contributing Scenario: Consumer (PC8)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.885 mg/m ³	N/A	0.00776
inhalative, local, short-term	2.52 mg/m ³	N/A	0.0221
dermal, systemic, long-term	8.43 mg/kg bw/day	N/A	0.0143
combined routes, systemic, long-term	N/A	N/A	0.0364

8.2. CS10: Consumer Contributing Scenario: Consumer (PC18)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	86 mg/m ³	N/A	0.754
inhalative, local, short-term	86 mg/m ³	N/A	0.754
dermal, systemic, long-term	4.69 mg/kg bw/day	N/A	0.0227
combined routes, systemic, long-term	N/A	N/A	0.777

8.2. CS11: Consumer Contributing Scenario: Consumer (PC23)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	3.62 mg/m ³	N/A	0.0317
inhalative, local, short-term	45.3 mg/m ³	N/A	0.397
dermal, systemic, long-term	28.2 mg/kg bw/day	N/A	0.0109
combined routes, systemic, long-term	N/A	N/A	0.408

8.2. CS12: Consumer Contributing Scenario: Consumer (PC23)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.136 mg/m ³	N/A	0.00119
inhalative, local, short-term	6.24 mg/m ³	N/A	0.0547
dermal, systemic, long-term	1.23 mg/kg bw/day	N/A	6.5E-05
combined routes, systemic, long-term	N/A	N/A	0.0295

8.2. CS13: Consumer Contributing Scenario: Consumer (PC24)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.0368 mg/m ³	N/A	0.000322
inhalative, local, short-term	3.36 mg/m ³	N/A	0.0294
dermal, systemic, long-term	1.23 mg/kg bw/day	N/A	6.5E-05
combined routes, systemic, long-term	N/A	N/A	0.0295

8.2. CS14: Consumer Contributing Scenario: Consumer (PC27)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	15.7 mg/m ³	N/A	0.137
inhalative, local, short-term	15.7 mg/m ³	N/A	0.137
dermal, systemic, long-term	11.2 mg/kg bw/day	N/A	0.0543
combined routes, systemic, long-term	N/A	N/A	0.226
oral, systemic, long-term	131.2 mg/kg bw/day	N/A	0.0344

8.2. CS15: Consumer Contributing Scenario: Consumer (PC31)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	3.62 mg/m ³	N/A	0.0317
inhalative, local, short-term	45.3 mg/m ³	N/A	0.397
dermal, systemic, long-term	28.2 mg/kg bw/day	N/A	0.0109
combined routes, systemic, long-term	N/A	N/A	0.408

8.2. CS16: Consumer Contributing Scenario: Consumer (PC31)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.0684 mg/m ³	N/A	0.0006
inhalative, local, short-term	3.12 mg/m ³	N/A	0.0273
dermal, systemic, long-term	5.65 mg/kg bw/day	N/A	0.000597
combined routes, systemic, long-term	N/A	N/A	0.0279

8.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.